



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

04/07/2011

Abigail Holland
Assistant District Attorney, Suffolk County

Dear ADA Holland,

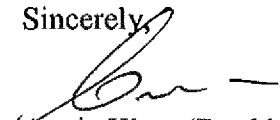
Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Michael Lawler.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Michal Lawler was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,


Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

10-A1-191

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

ROXBURY
BOSTONMA
MA

BOSTON

MA

LAB USE ONLY

DESCRIPTION OF ITEMS SUBMITTED

GROSS
QUANTITYGROSS
WEIGHTANALYSIS
NUMBER

CRACK COCAINE

3 P/B's

2.09g

CRACK COCAINE

66 P/B's

14.25g

CRACK COCAINE

2 P/B's

2.00g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits.

2005-present lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

CDC course in cell culture

CDC course in antibiotic resistance

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

No. [REDACTED]
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Date Analyzed: 08-09-10

Amount:
No. Cont: 3 Cont: pb
Date Rec'd: 07/14/2010
Gross Wt.: 2.09 ✓

Subst: SUB

No. Analyzed: 1
Net Weight: 0.08g
Tests: 9/11/10
• 2 ASD
Prelim: cocaine (K) Findings: cocaine

No. [REDACTED]
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Date Analyzed: 08-09-10

Amount:
No. Cont: 66 Cont: pb
Date Rec'd: 07/14/2010
Gross Wt.: 14.25 ✓

Subst: SUB

No. Analyzed: 7
Net Weight: 7.08g
Tests: 63/11/10
• 14 ASD
Prelim: cocaine (K) Findings: cocaine

No. [REDACTED]
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Date Analyzed: 08-09-10

Amount:
No. Cont: 2 Cont: pb
Date Rec'd: 07/14/2010
Gross Wt.: 2.00 ✓

Subst: SUB

No. Analyzed: 1
Net Weight: 0.11g
Tests: 9/11/10
• 2 ASD
Prelim: cocaine (K) Findings: cocaine

DRUG POWDER ANALYSIS FORM

8-9-10

SAMPLE #

AGENCY

Boston DCU

ANALYST

AK

No. of samples tested: 1

Evidence Wt.

2.09

PHYSICAL DESCRIPTION:

3 pb capsules of substance in each

Gross Wt ():

0.378

Gross Wt ():

Pkg. Wt:

Net Wt:

0.0869

OHAUS 2334 8-4-10

20g = 19.9999g

10g = 10.0000g

5g = 5.0001g

1g = 0.9998g

one tested direct net

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate

(+) (Hx)

Marquis

(-)

Froehde's

(-)

Mecke's

(-)

Microcrystalline Tests

Gold Chloride

(+)

TLTA

(+) (Hx) (-)

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS

DATE

GC/MS CONFIRMATORY TEST

RESULTS

MS OPERATOR

DATE

cocaine

ASD

8-9-10

89-10

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Boston DCM ANALYST mk
No. of samples tested: 7 Evidence Wt. 14.25

PHYSICAL DESCRIPTION: Sandwich bag with:
66 pb corners with substance
in each
Gross Wt (): 9.4322
Gross Wt ():
Pkg. Wt:
Net Wt: 7.0884

OHAUS 2334-8-4-10
20g = 19.9999g
10g = 10.0000g
5g = 5.0001g
1g = 0.9998g

PRELIMINARY TESTS

Spot Tests
Cobalt Thiocyanate (+) x7
Marquis (-)
Froehde's (-)
Mecke's (-)

Microcrystalline Tests
Gold Chloride (+) x7
TLTA (+)

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS
DATE

GC/MS CONFIRMATORY TEST

RESULTS cocaine
MS OPERATOR ASD
DATE 8-9-10

Sample #

0°C

0•1134+
0•0889+
0•1240+
0•1103+
0•1066+
0•1288+
0•0800+
0•7520*

0•7520÷
7•=
0•1074*

0•1074×
66•=
7•0884*

0•02

Light	Net Weight	#	Gross Weight	Packet Weight	Net Weight
	0.1134	26			
	0.0889	27			
	0.1240	28			
	0.1103	29			
	0.1066	30			
	0.1288	31			
	0.0800	32			
		33			
		34			
		35			
		36			
		37			
		38			
		39			
		40			
		41			
		42			
		43			
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		45			
		46			
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		49			
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25	

Calculations:

8-9-10

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Boston DCU ANALYST MM
No. of samples tested: 1 Evidence Wt. 2.00g

PHYSICAL DESCRIPTION:

2 pb corners with substance

Gross Wt (): 0.2611

Gross Wt ():

Pkg. Wt:

Net Wt: 0.1109g

OHAUS 2334 8-4-10

20g = 19.9999g

10g = 10.0000g

5g = 5.0001g

1g = 0.9998g

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate (+) H+
Marquis (-)
Froehde's (-)
Mecke's (-)

Microcrystalline Tests

Gold Chloride (+)
TLTA (+) H+

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS

DATE

GC/MS CONFIRMATORY TEST

RESULTS Cocaine

MS OPERATOR ASD

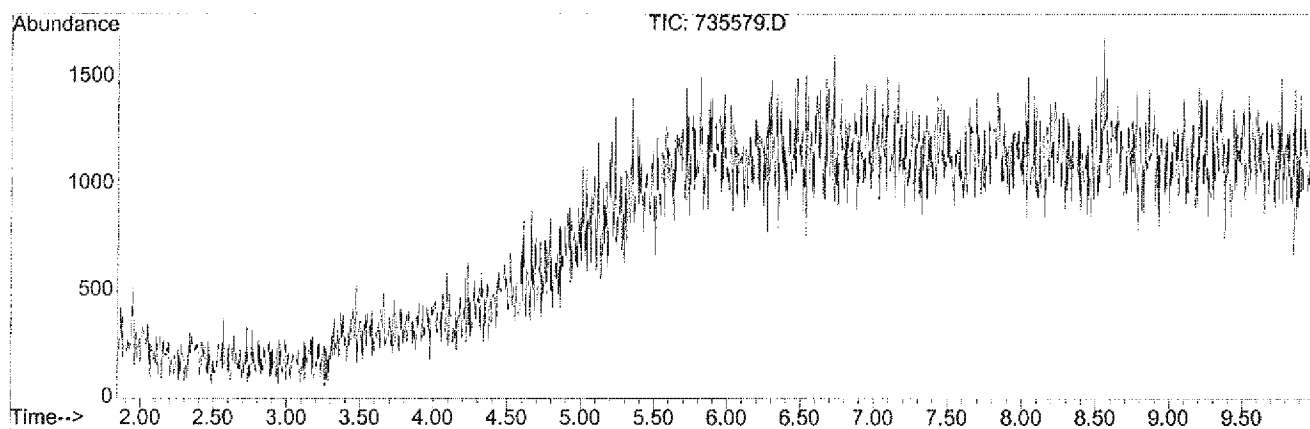
DATE 8-9-10

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735579.D
Operator : ASD
Date Acquired : 6 Aug 2010 5:28
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE

✓ ASD
4-7-11



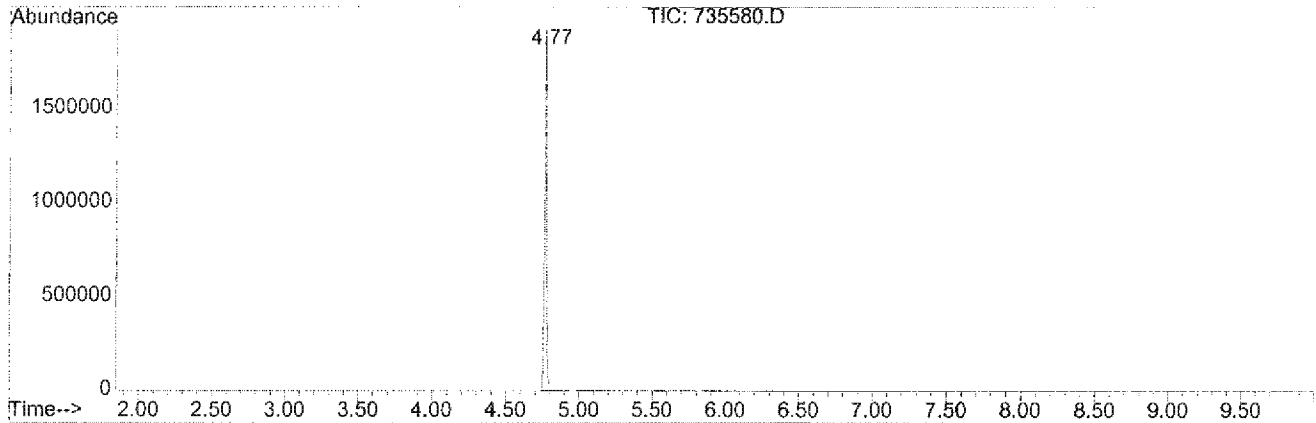
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735580.D
Operator : ASD
Date Acquired : 6 Aug 2010 5:41
Sample Name : COCAINE STD
Submitted by :
Vial Number : 80
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.766	1911918	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

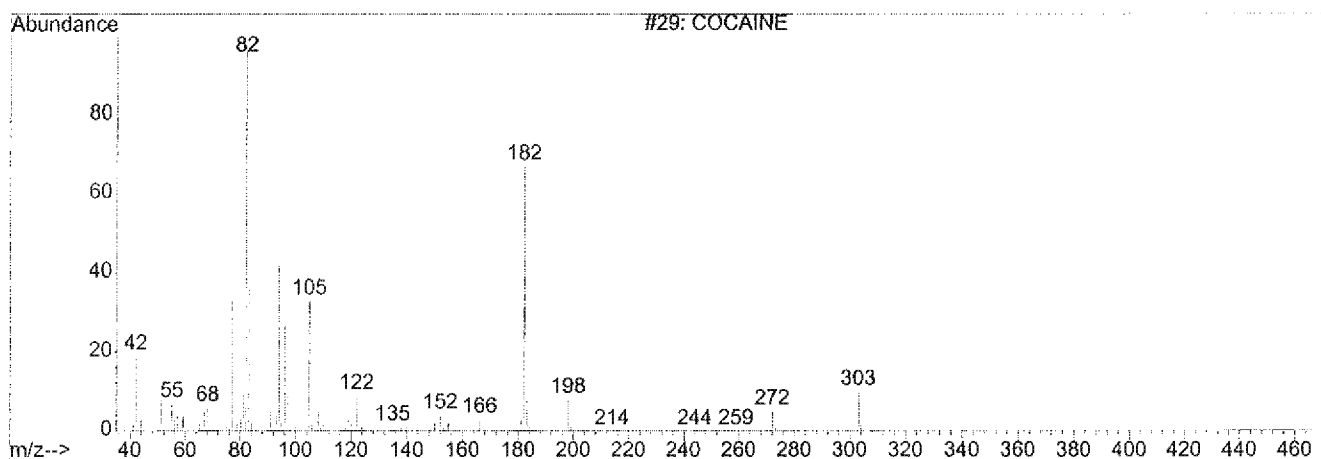
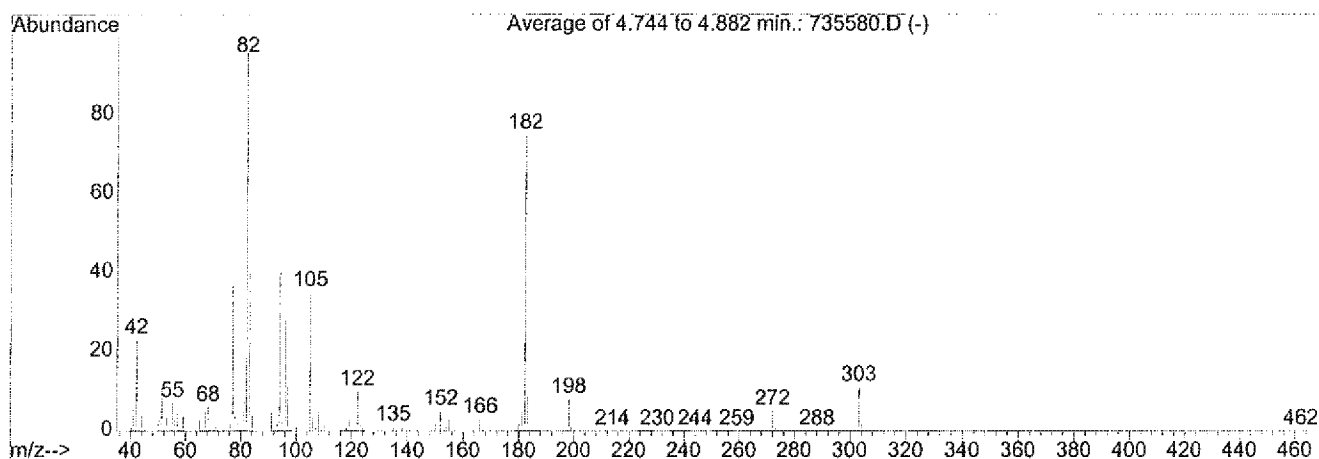
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File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735580.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   5:41
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 80
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

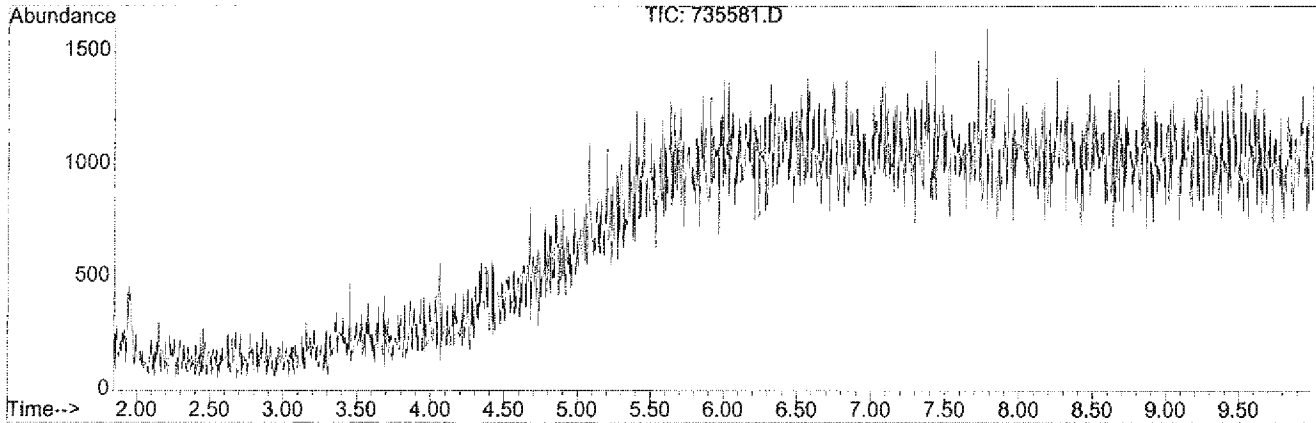
PK#	RT	Library/ID	CAS#	Qual
1	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735581.D
Operator : ASD
Date Acquired : 6 Aug 2010 5:55
Sample Name : BLANK
Submitted by : MGL
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



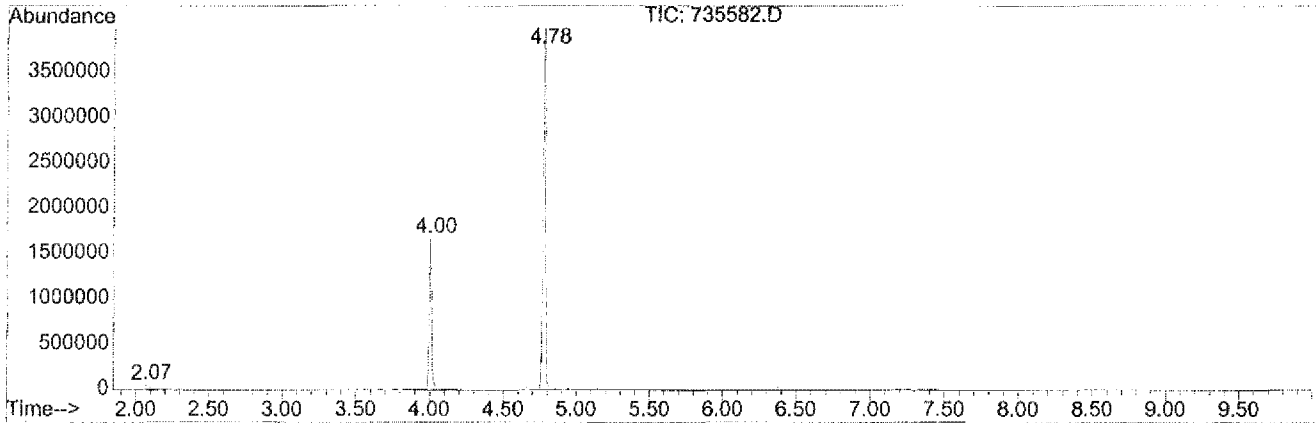
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735582.D
Operator : ASD
Date Acquired : 6 Aug 2010 6:08
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 82
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.068	133349	1.98	2.88
4.004	1971693	29.28	42.59
4.776	4628945	68.74	100.00

Area Percent / Library Search Report

Information from Data File:

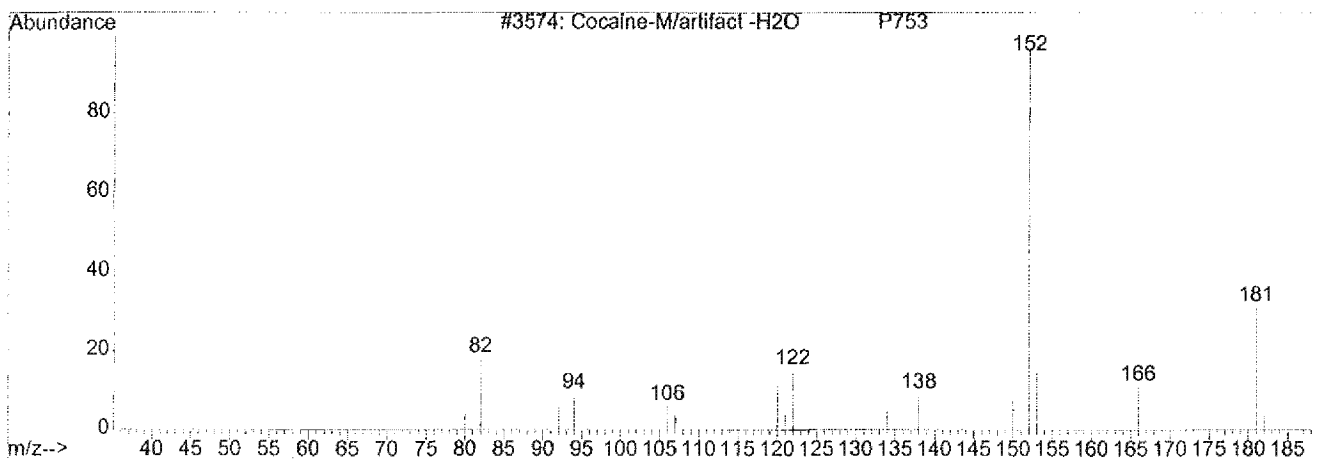
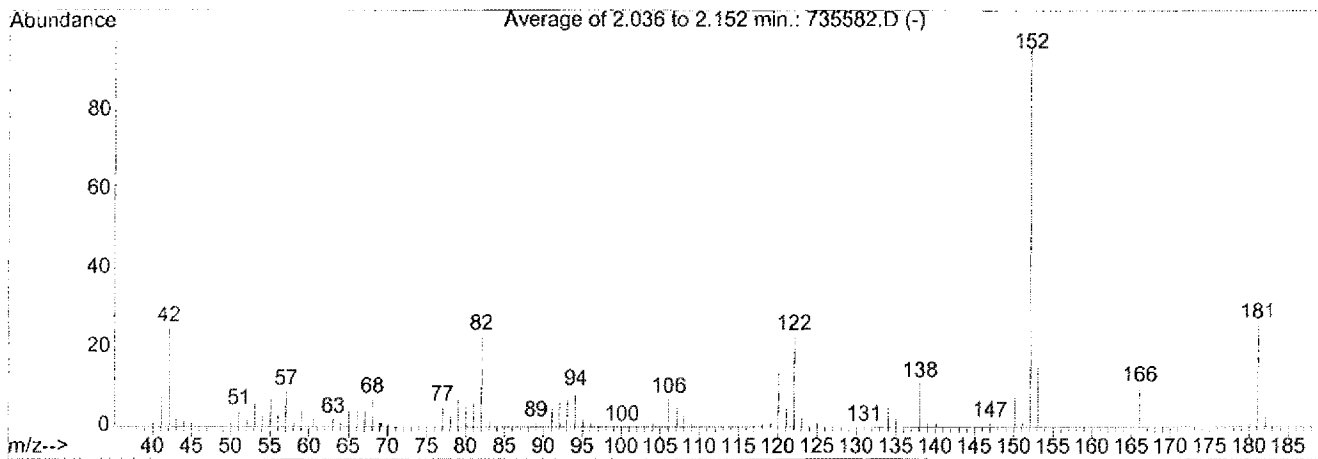
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File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735582.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   6:08
Sample Name     : 
Submitted by    : MGL
Vial Number     : 82
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.07	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	96
		Metipranolol-M/artifact AC	000000-00-0	25
		Acenaphthylene	000208-96-8	7



Area Percent / Library Search Report

Information from Data File:

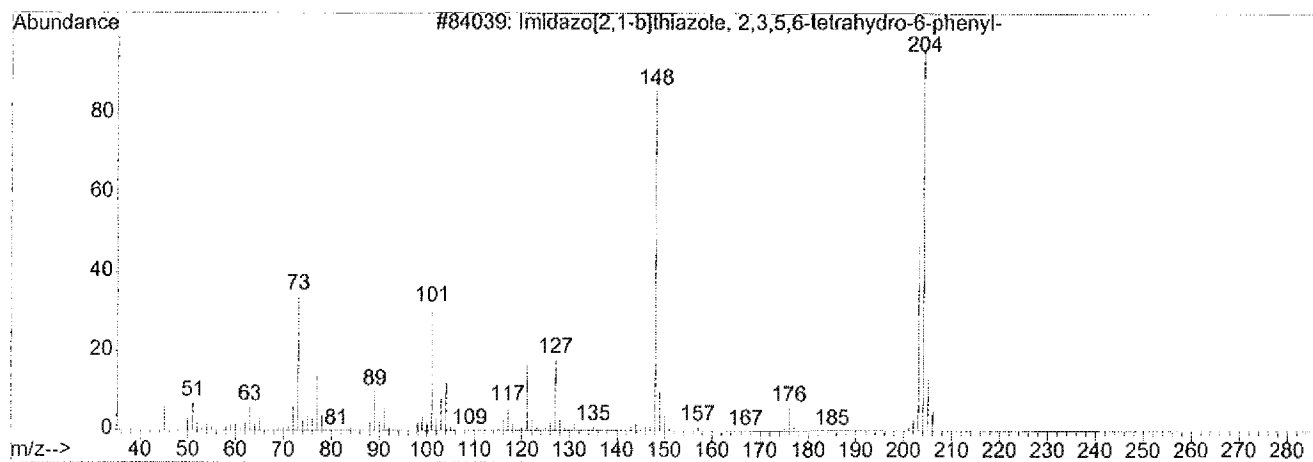
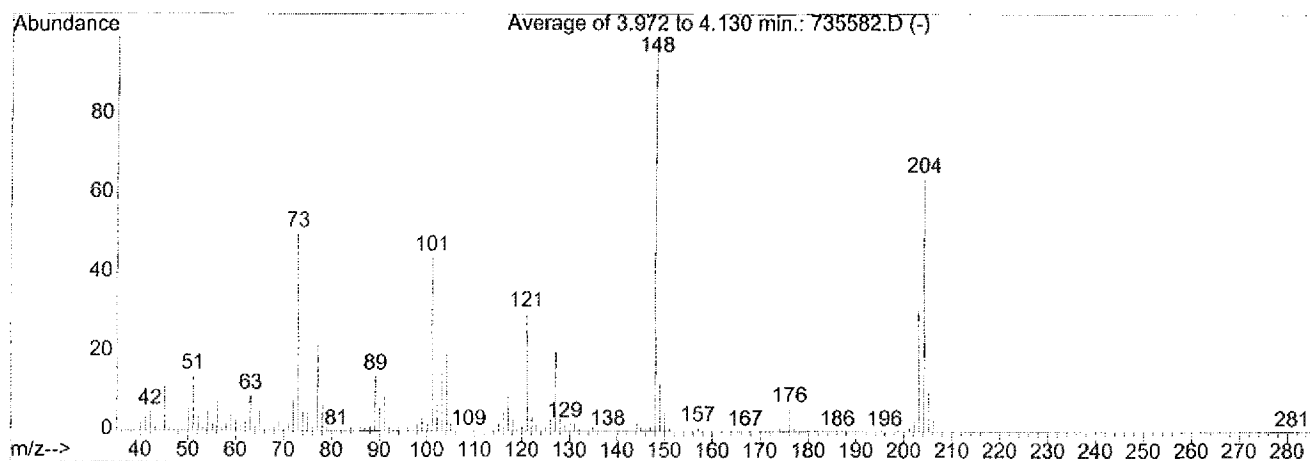
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File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735582.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   6:08
Sample Name     : 
Submitted by    : MGL
Vial Number     : 82
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	4.00	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



Area Percent / Library Search Report

Information from Data File:

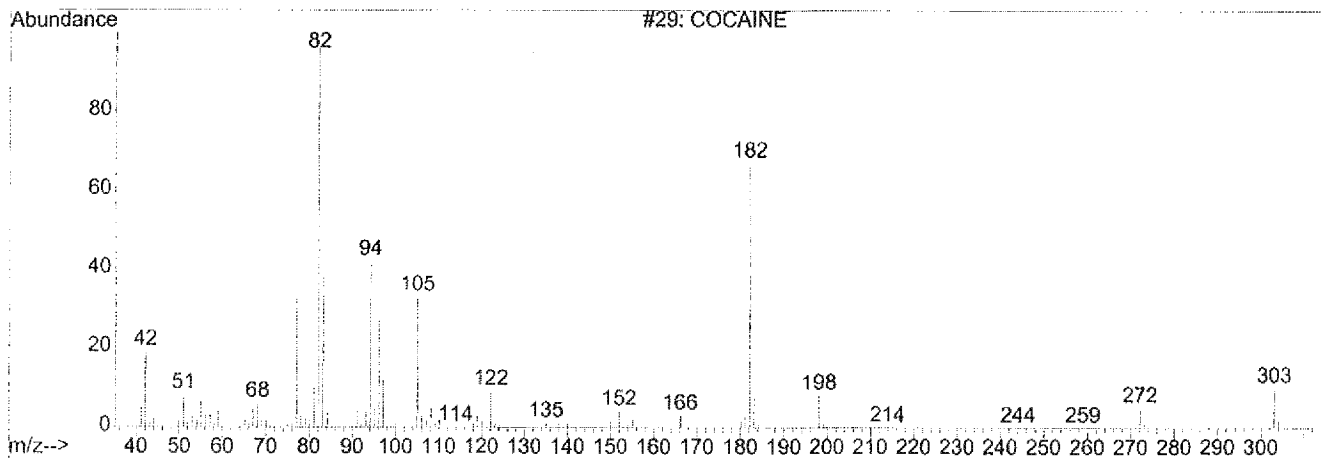
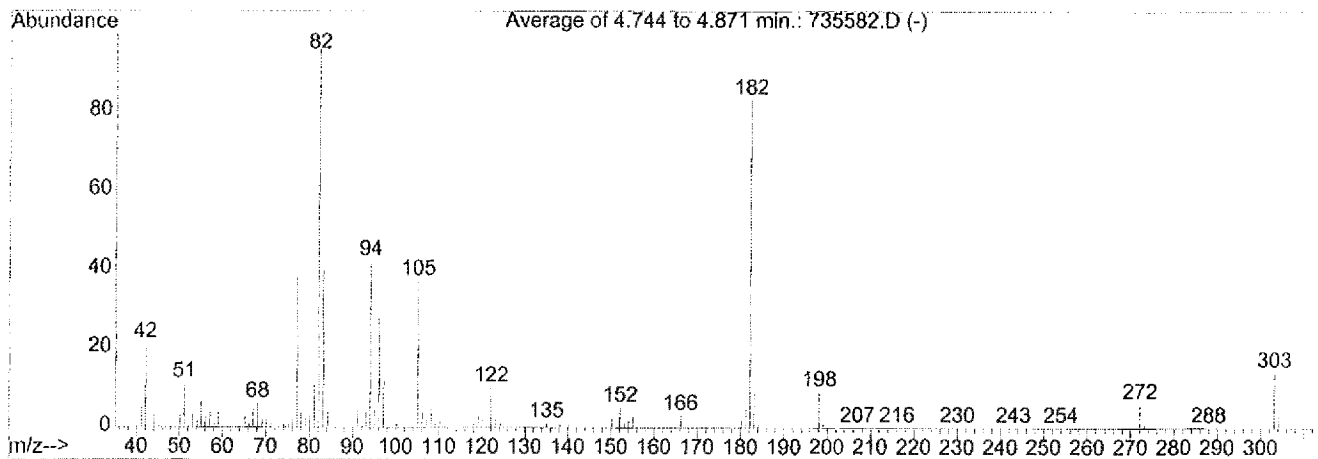
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File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735582.D
Operator        : ASD
Date Acquired   : 6 Aug 2010    6:08
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 82
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

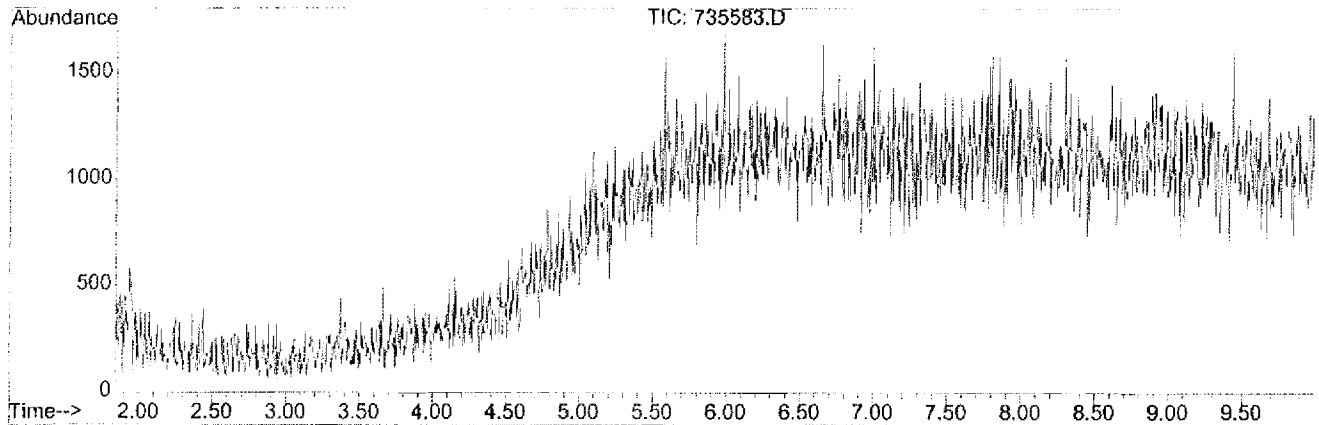
PK#	RT	Library/ID	CAS#	Qual
3	4.78	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735583.D
Operator : ASD
Date Acquired : 6 Aug 2010 6:22
Sample Name : BLANK
Submitted by : MGL
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



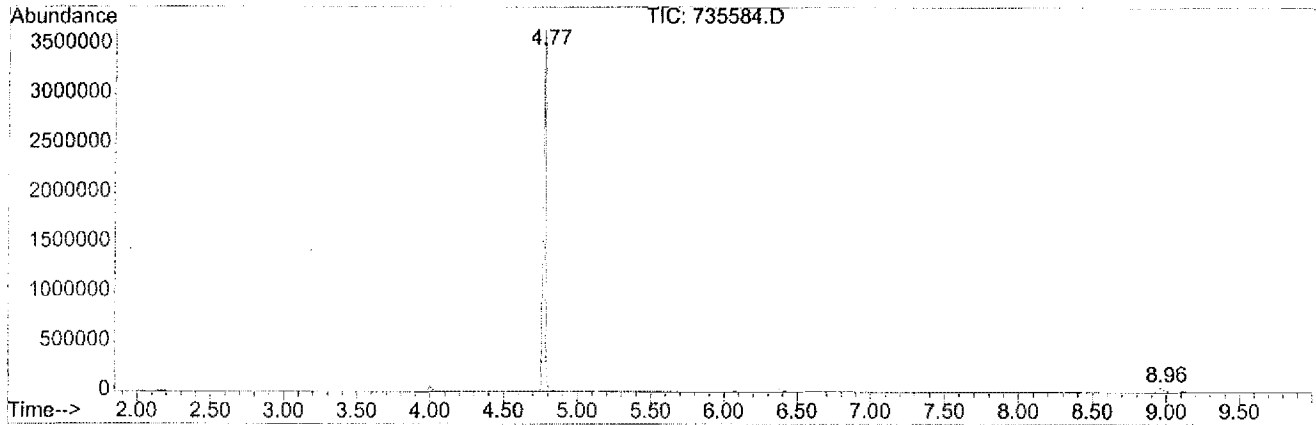
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735584.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 6:35
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 84
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.772	4276988	96.57	100.00
8.960	152036	3.43	3.55

Area Percent / Library Search Report

Information from Data File:

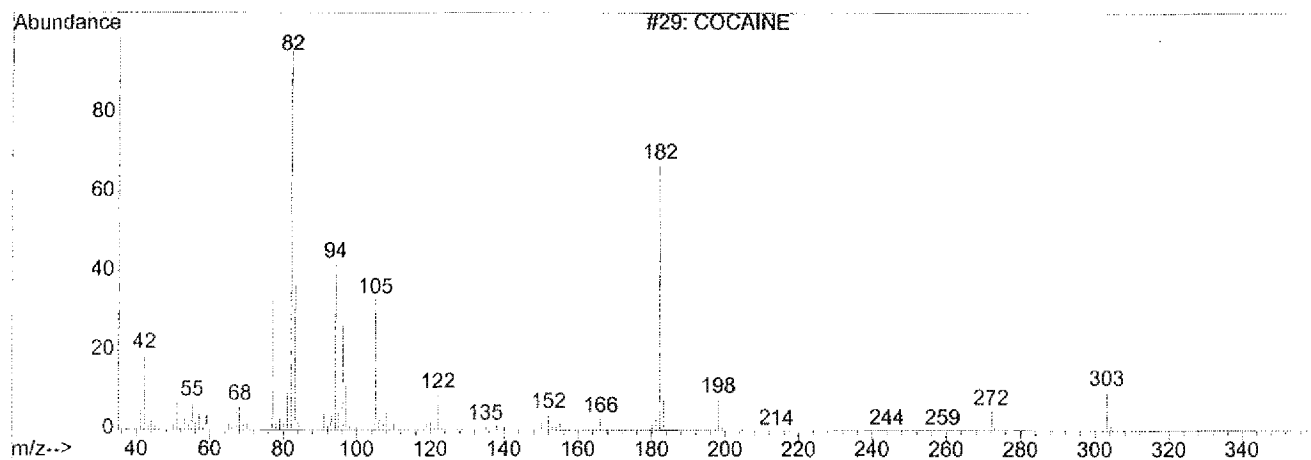
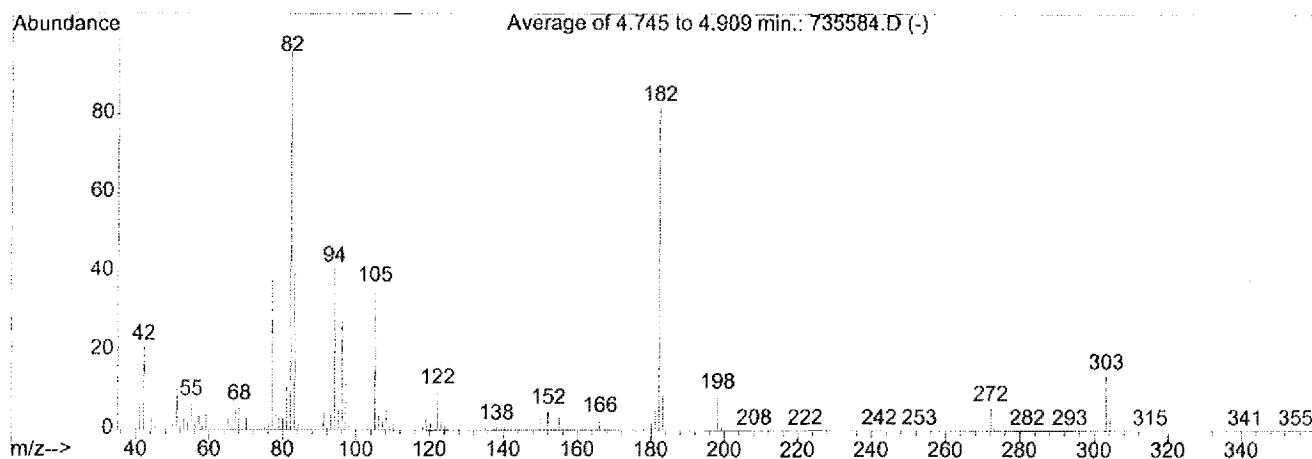
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File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735584.D
Operator        : ASD
Date Acquired   : 6 Aug 2010    6:35
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 84
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



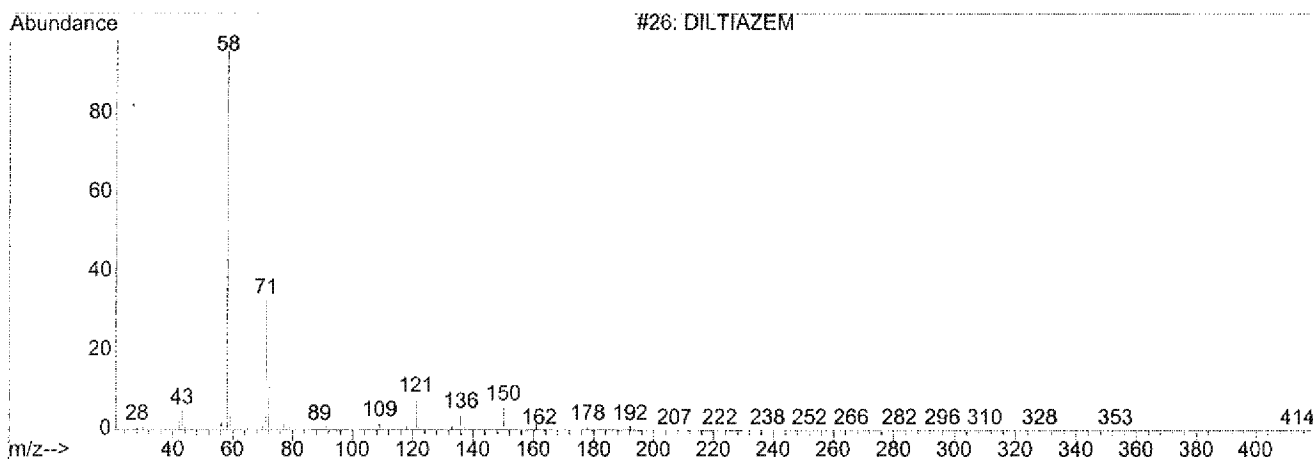
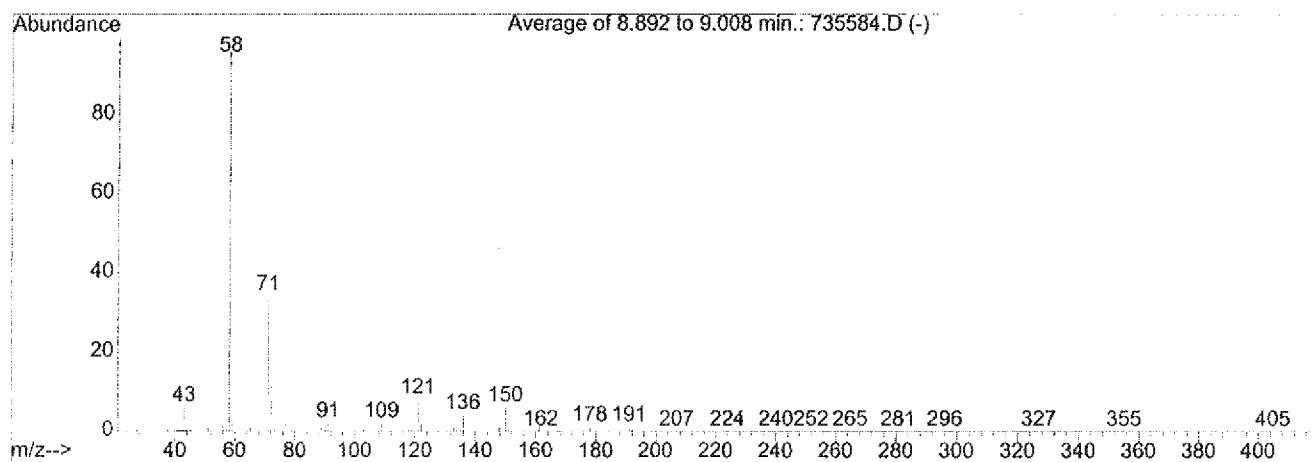
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735584.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 6:35
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 84
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

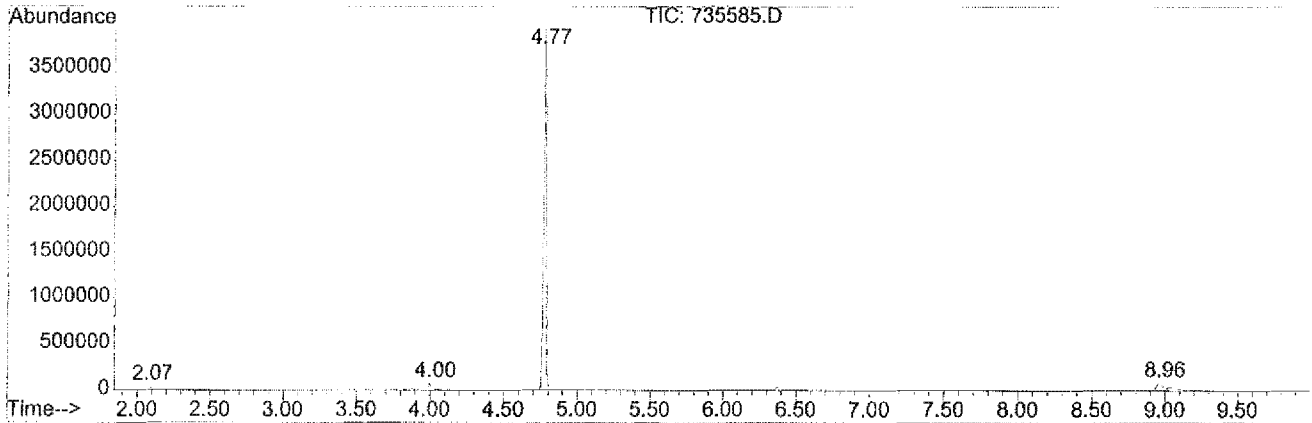
PK#	RT	Library/ID	CAS#	Qual
2	8.96	C:\DATABASE\SLI.L		
		DILTIAZEM	033286-22-5	91
		ORPHENADRINE	000083-98-7	4
		CITALOPRAM	059729-33-8	2



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735585.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 6:49
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 85
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.066	102428	2.02	2.23
3.997	104313	2.06	2.28
4.774	4584493	90.38	100.00
8.958	281373	5.55	6.14

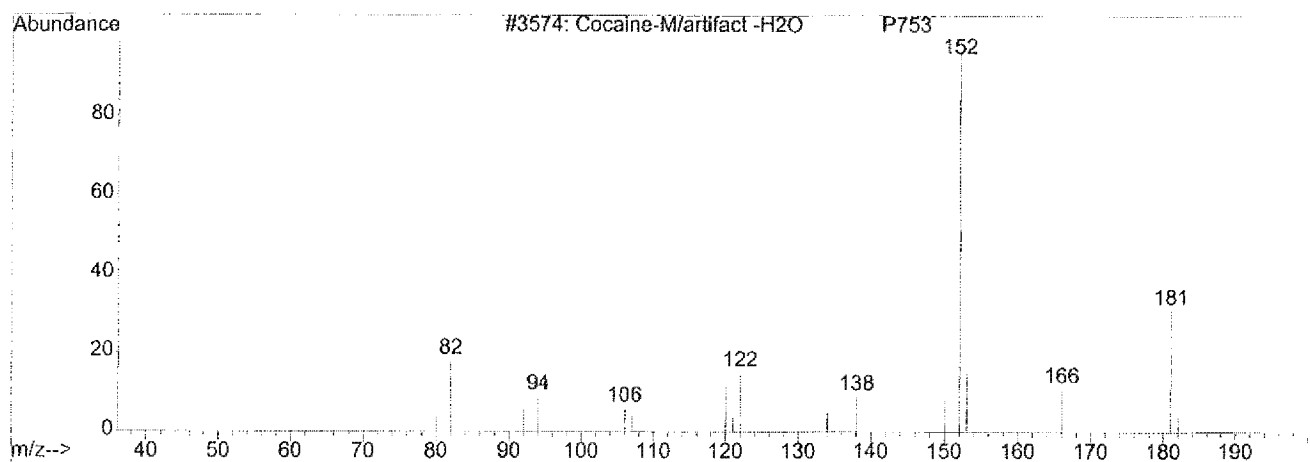
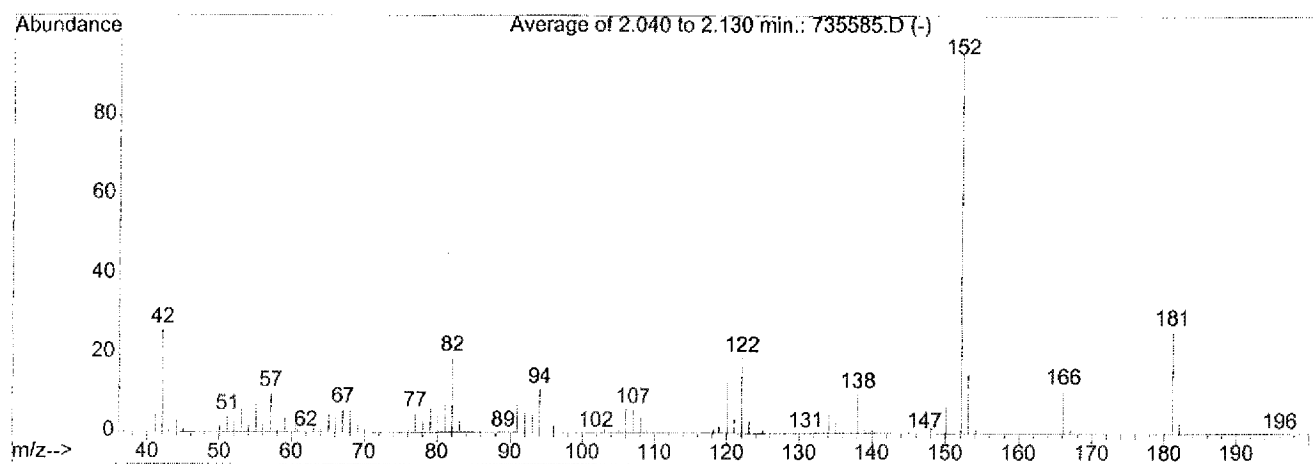
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735585.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 6:49
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 85
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	2.07	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	96
		Metipranolol-M/artifact AC	000000-00-0	25
		Vanillin AC	000000-00-0	17



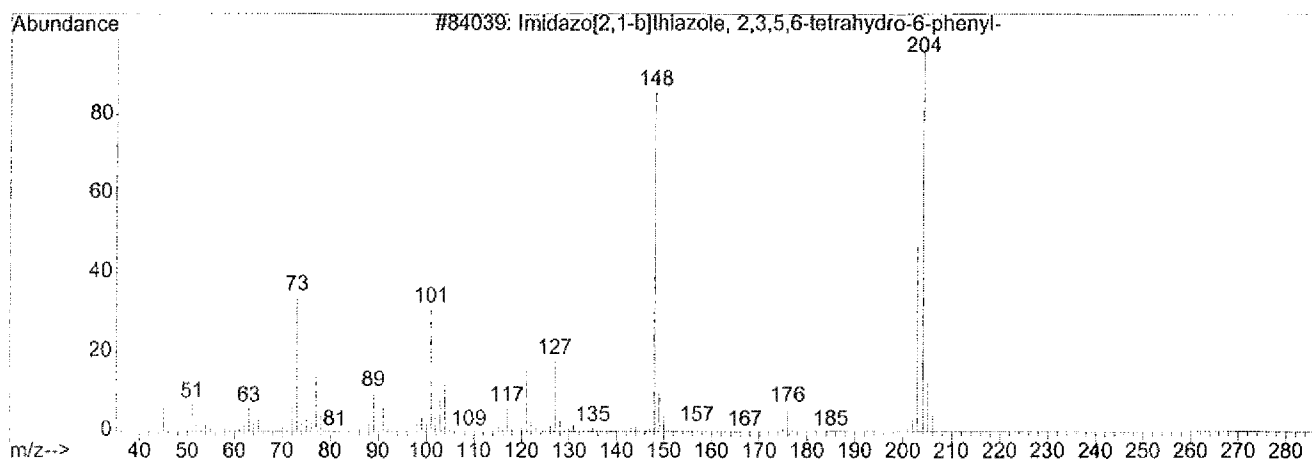
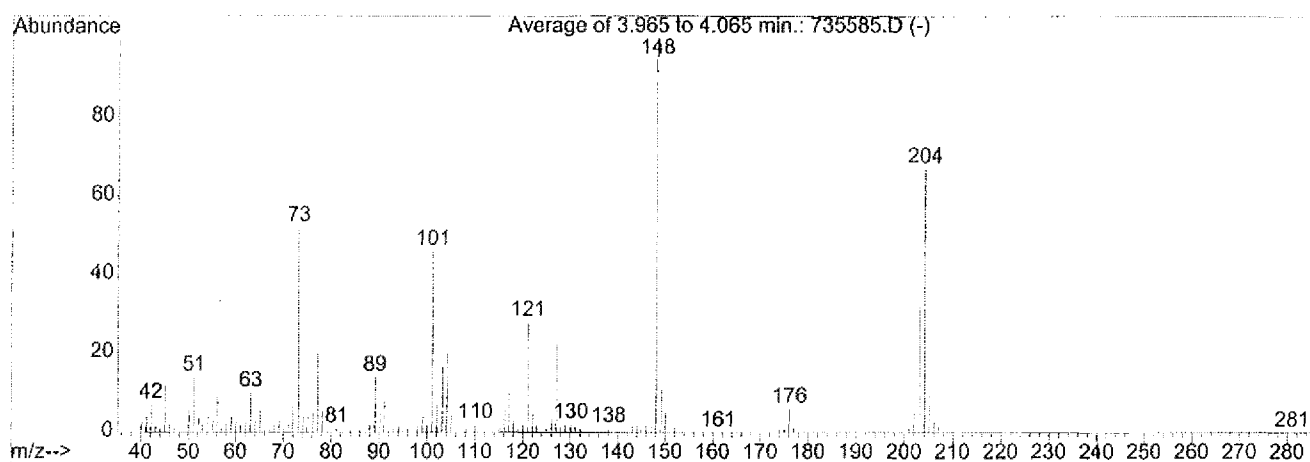
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735585.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 6:49
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 85
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	4.00	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



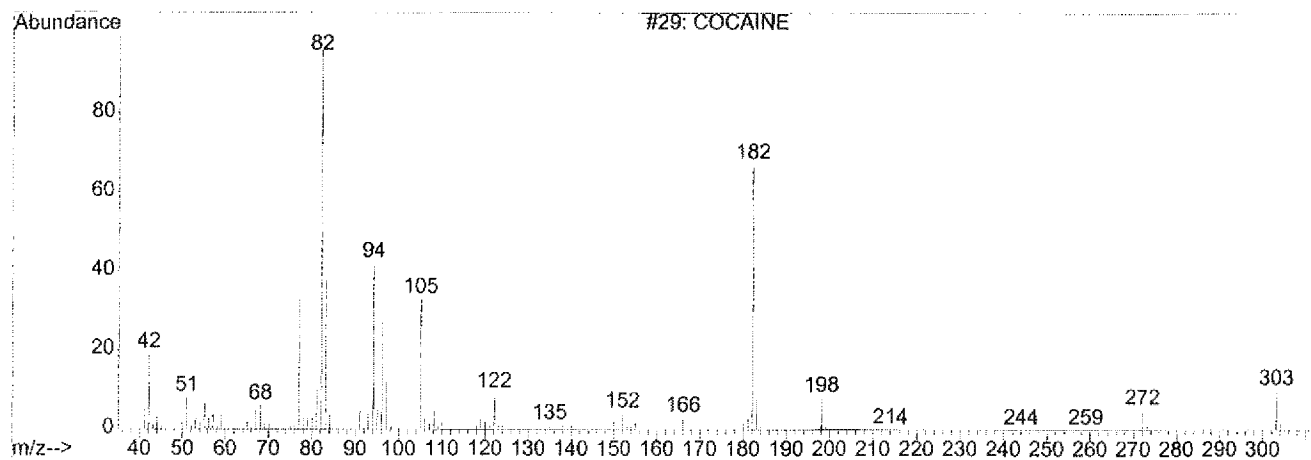
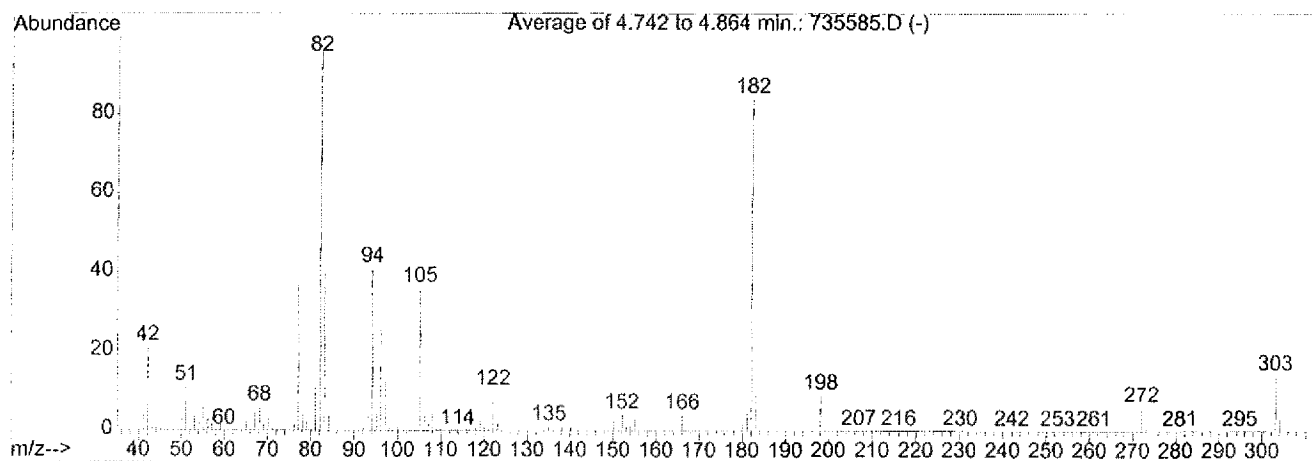
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735585.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 6:49
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 85
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
3	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

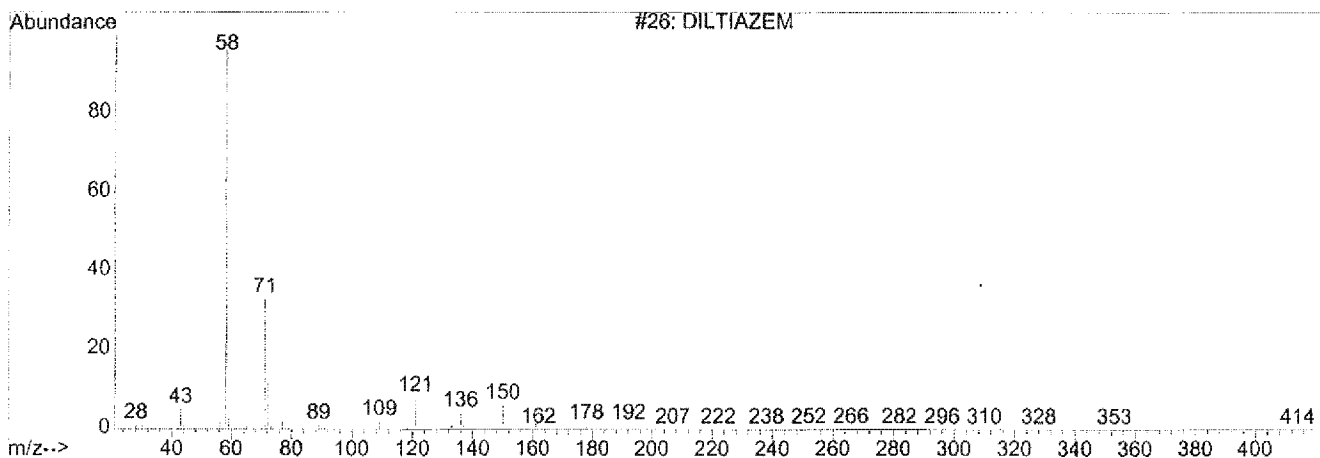
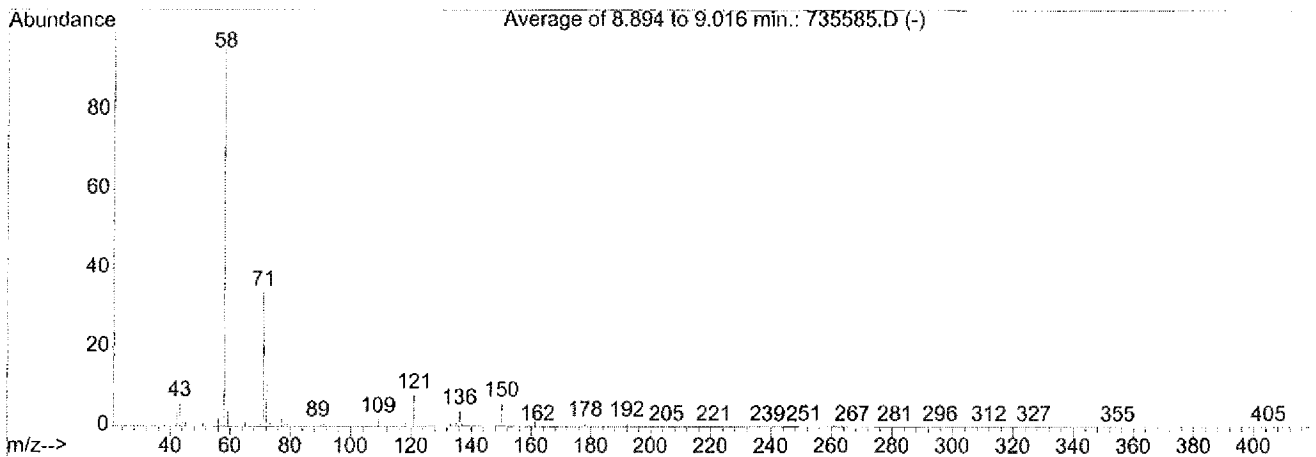
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735585.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   6:49
Sample Name     : 
Submitted by    : MGL
Vial Number     : 85
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

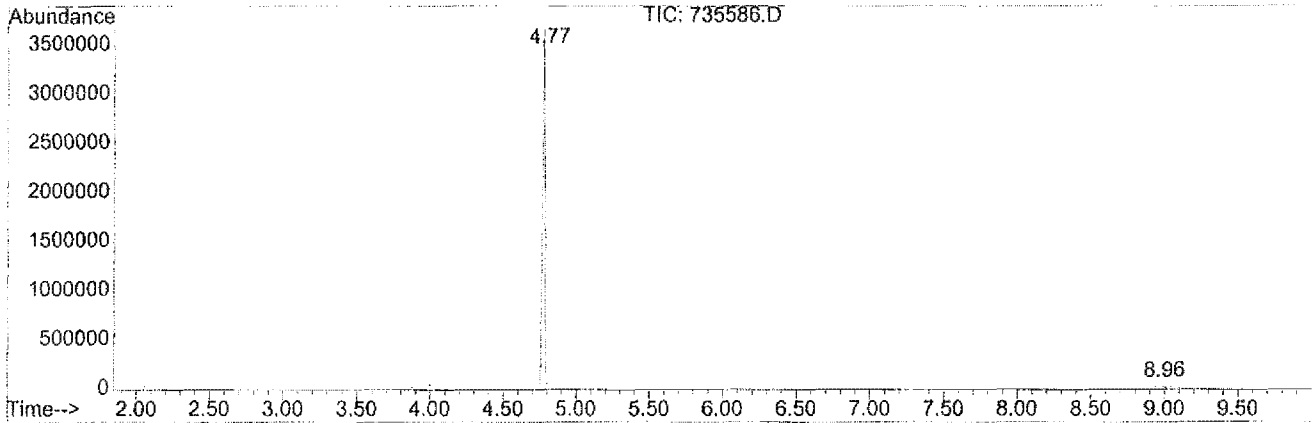
PK#	RT	Library/ID	CAS#	Qual
4	8.96	C:\DATABASE\SLI.L		
		DILTIAZEM	033286-22-5	91
		CITALOPRAM	059729-33-8	9
		CITALOPRAM	059729-33-8	9



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735586.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 7:02
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 86
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.774	4132466	95.15	100.00
8.957	210570	4.85	5.10

Area Percent / Library Search Report

Information from Data File:

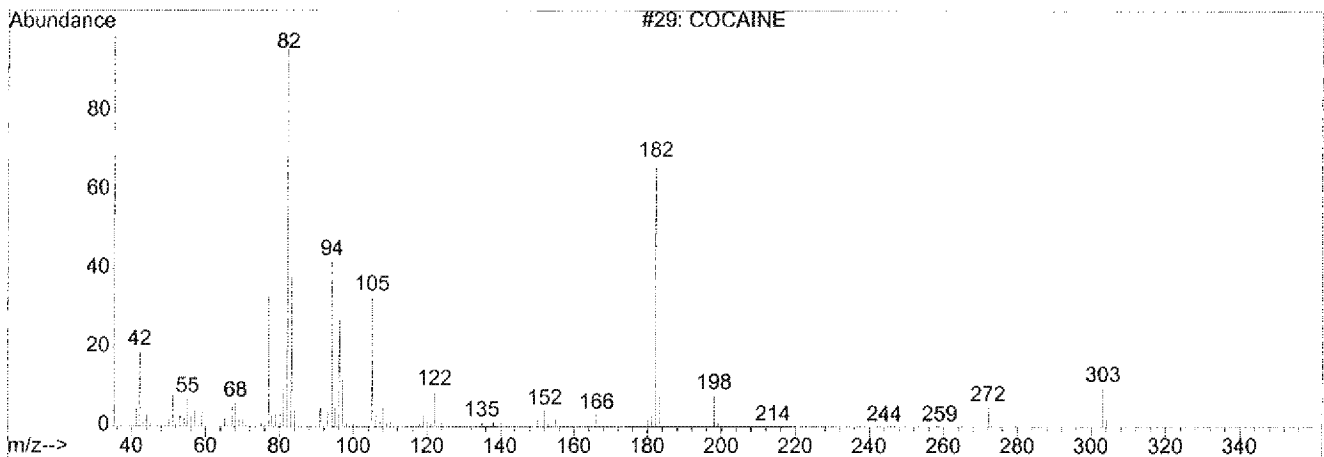
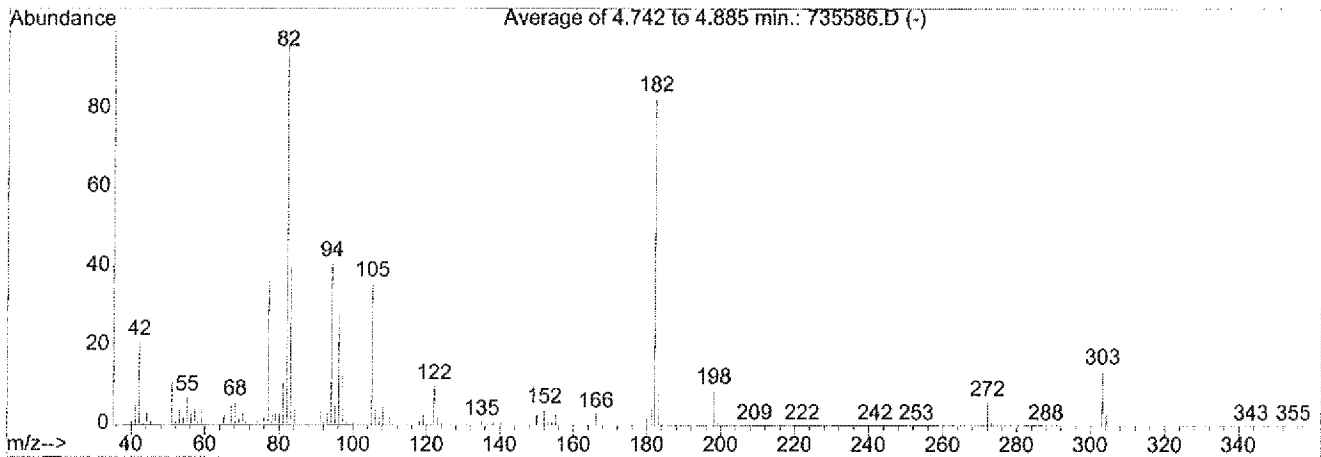
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735586.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   7:02
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 86
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

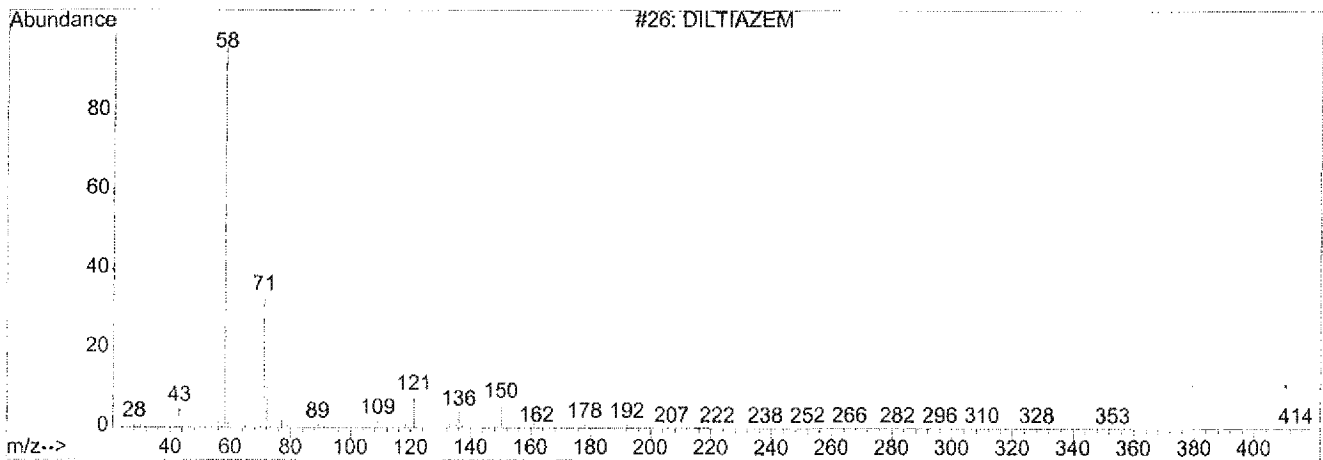
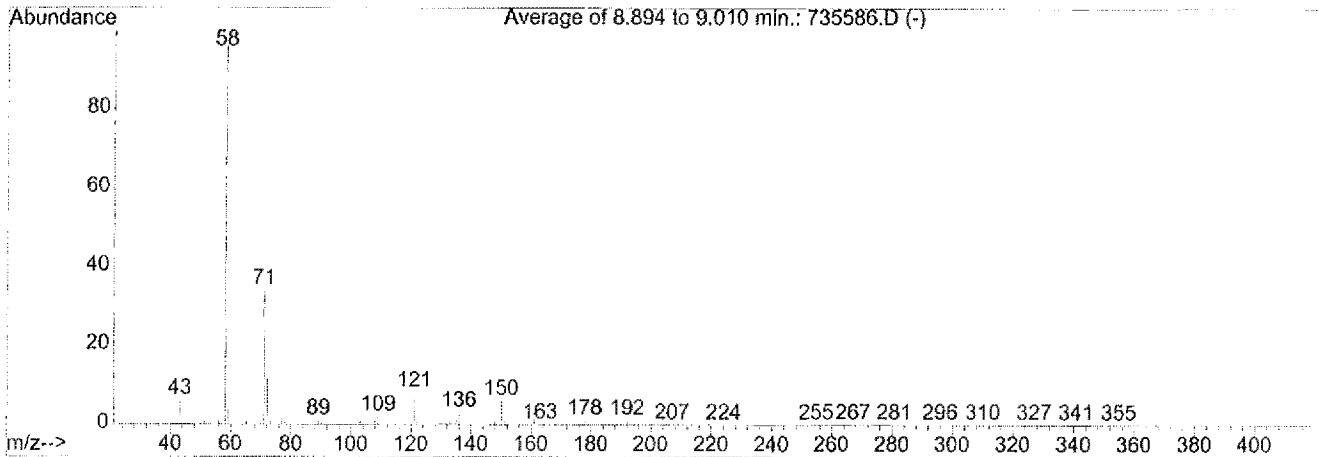
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735586.D
Operator        : ASD
Date Acquired   : 6 Aug 2010    7:02
Sample Name     : 
Submitted by    : MGL
Vial Number     : 86
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

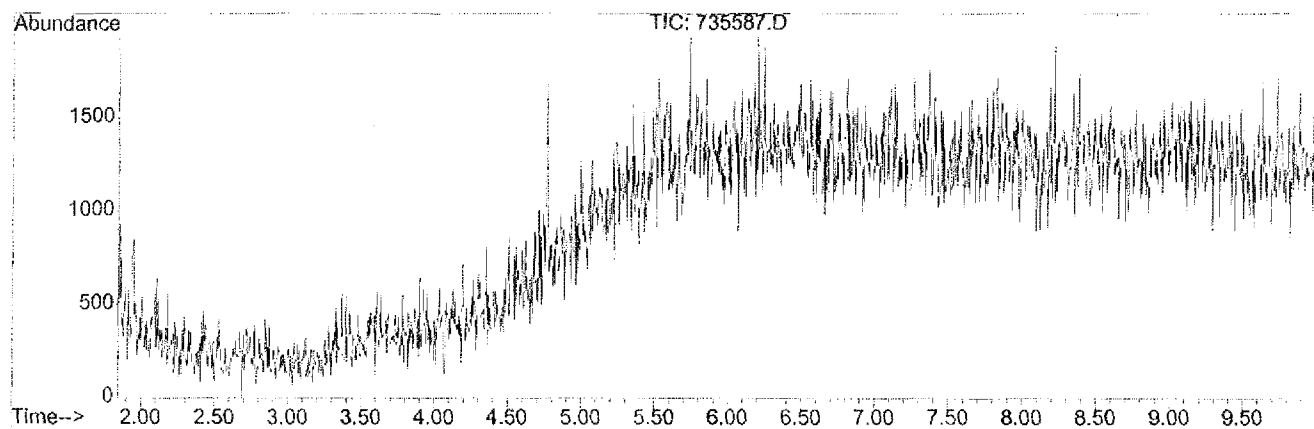
PK#	RT	Library/ID	CAS#	Qual
2	8.96	C:\DATABASE\SLI.L		
		DILTIAZEM	033286-22-5	91
		ORPHENADRINE	000083-98-7	4
		CITALOPRAM	059729-33-8	2



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735587.D
Operator : ASD
Date Acquired : 6 Aug 2010 7:16
Sample Name : BLANK
Submitted by : MGL
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



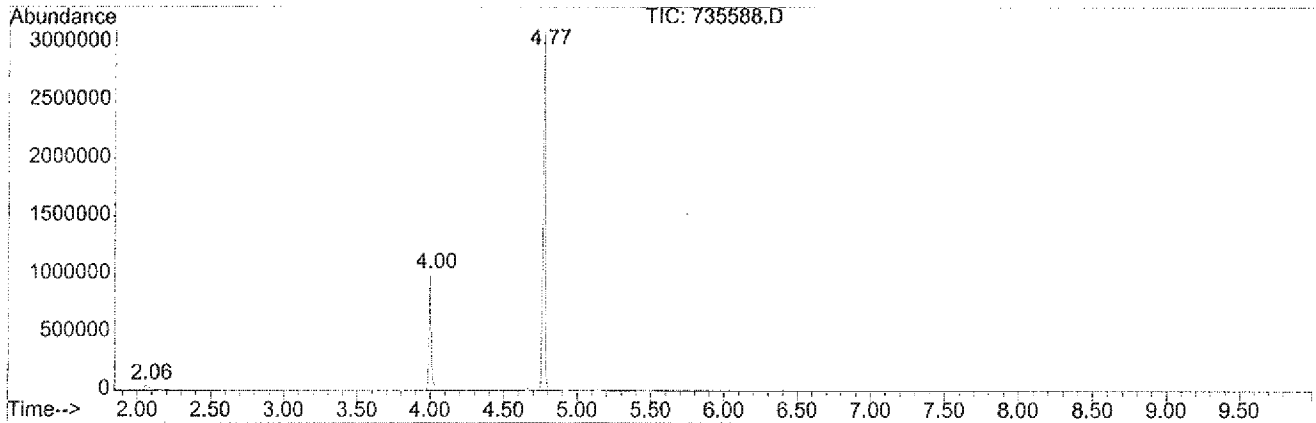
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735588.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 7:29
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 88
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.057	100422	2.18	3.05
3.998	1213834	26.33	36.82
4.771	3296410	71.50	100.00

Area Percent / Library Search Report

Information from Data File:

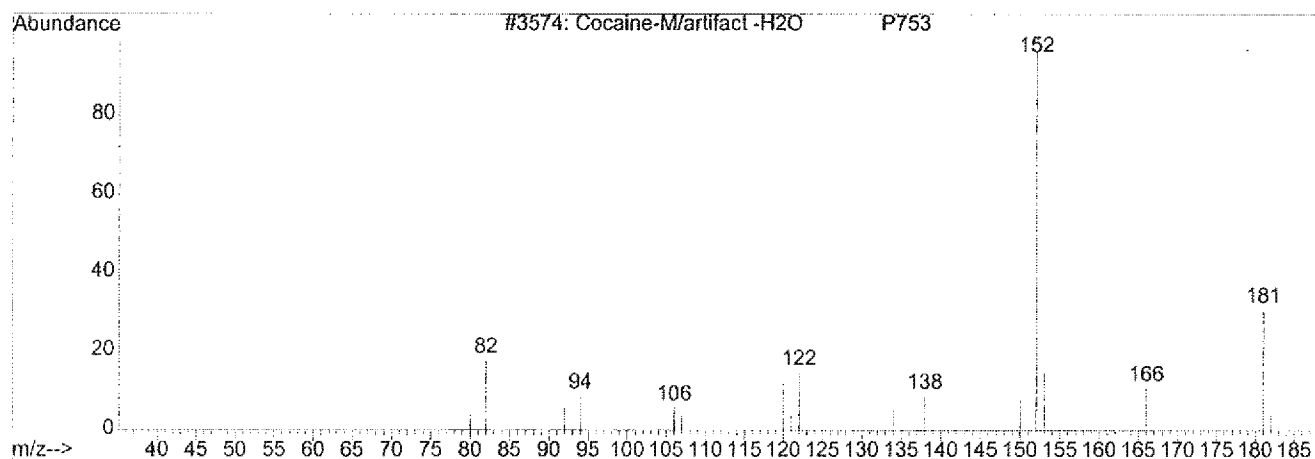
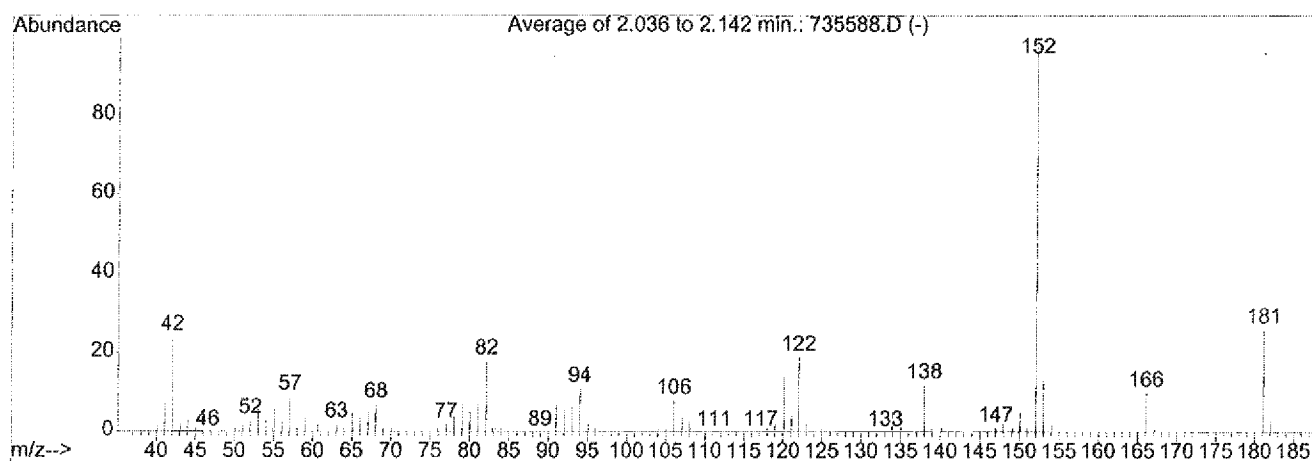
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735588.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   7:29
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 88
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.06	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	98
		Acenaphthylene	000208-96-8	43
		MDA-M (desmethylenyl-methyl-) ME @	000000-00-0	38



Area Percent / Library Search Report

Information from Data File:

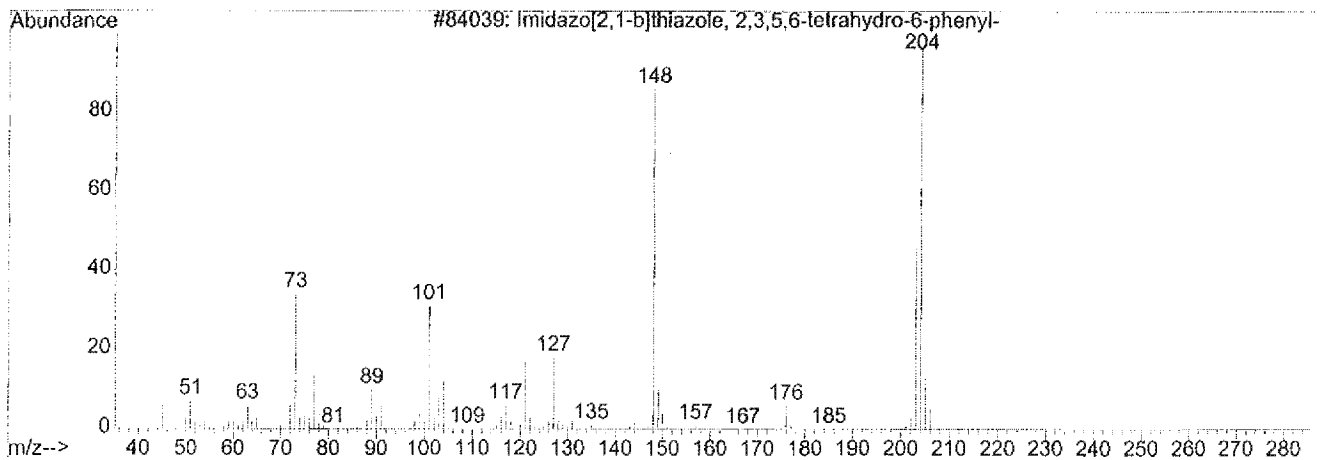
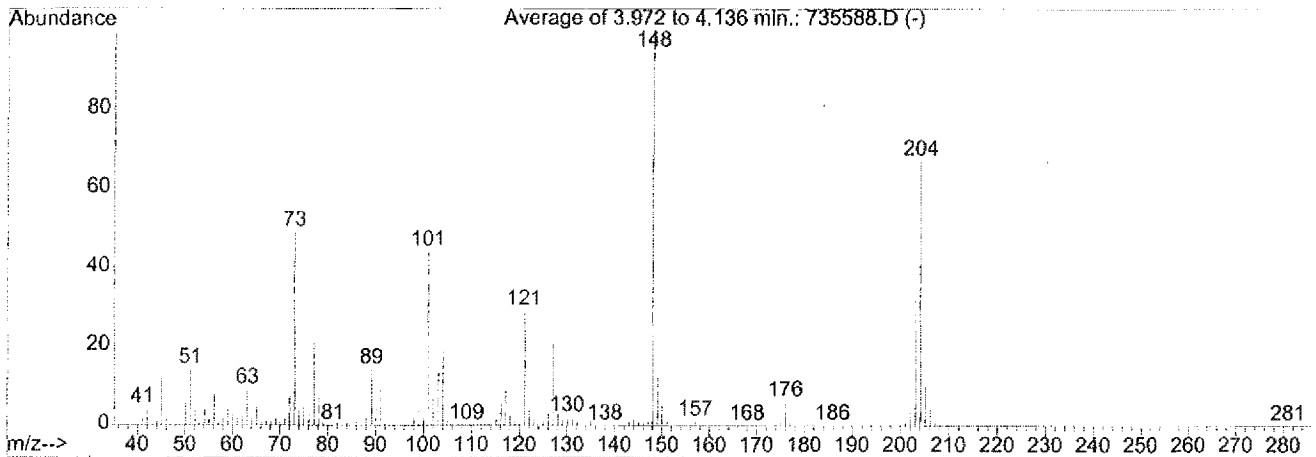
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735588.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   7:29
Sample Name     : 
Submitted by    : MGL
Vial Number     : 88
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	4.00	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



Area Percent / Library Search Report

Information from Data File:

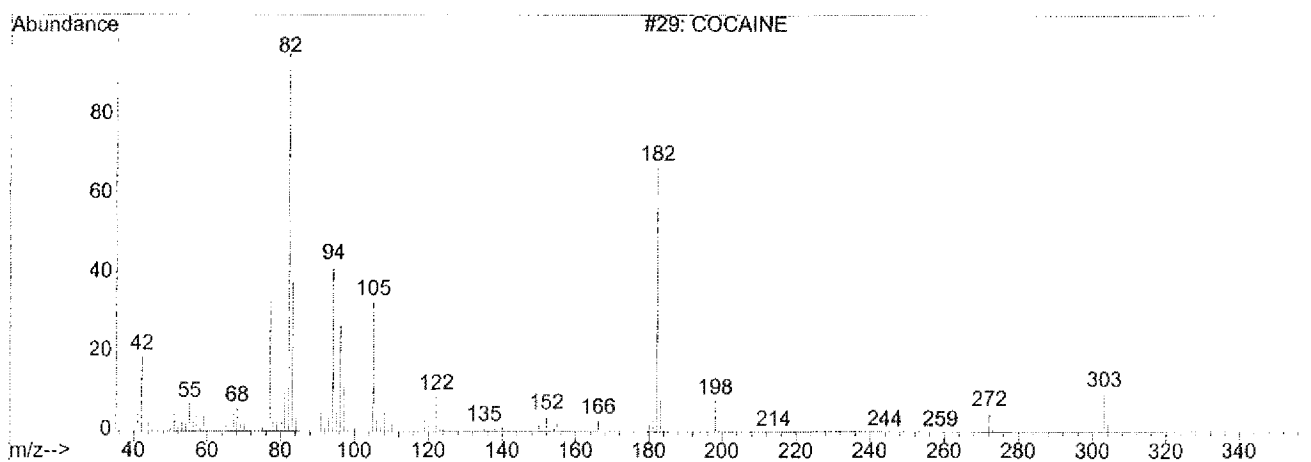
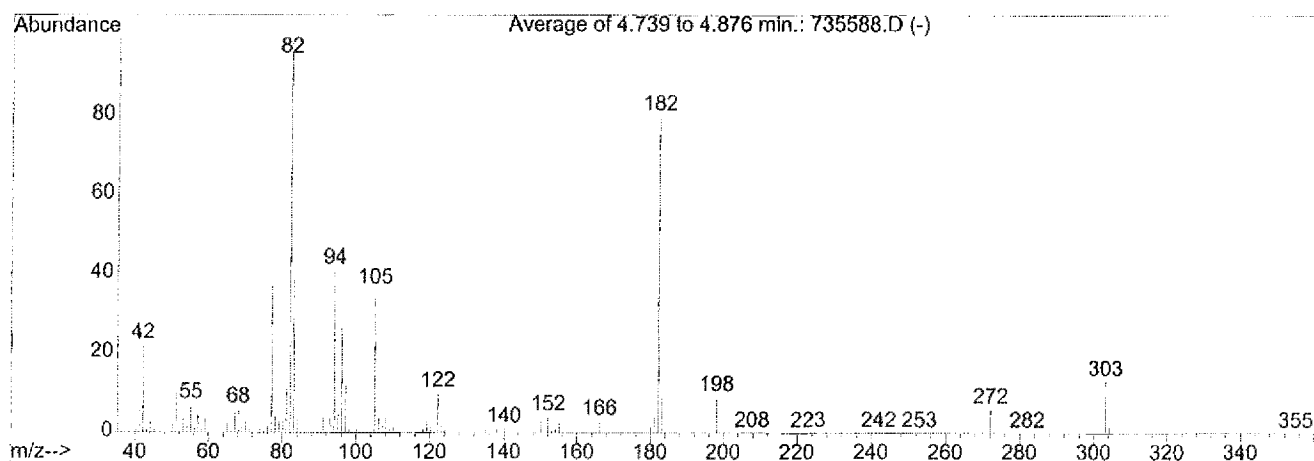
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735588.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   7:29
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 88
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

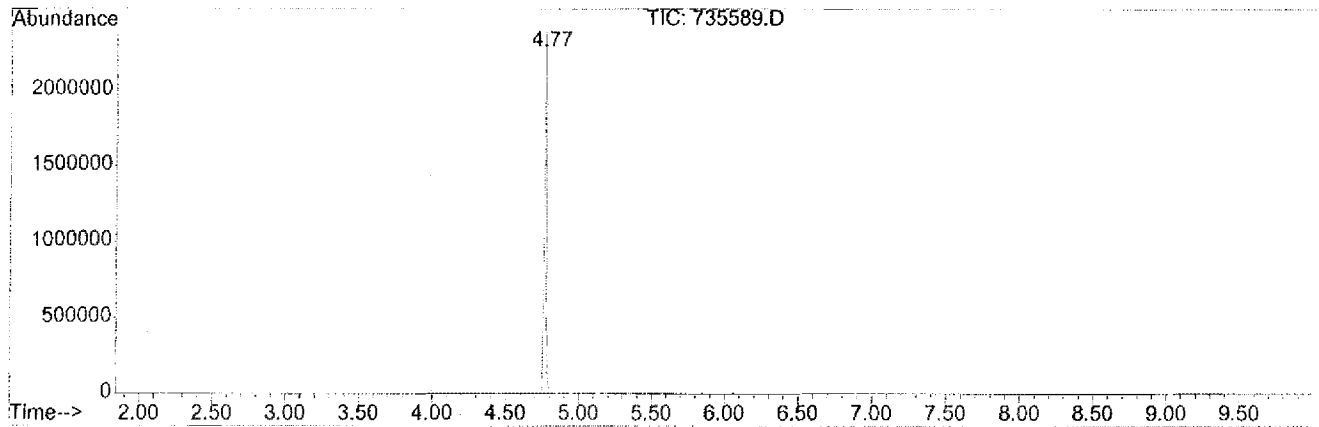
PK#	RT	Library/ID	CAS#	Qual
3	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735589.D
Operator : ASD
Date Acquired : 6 Aug 2010 7:43
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 89
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.768	2408052	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

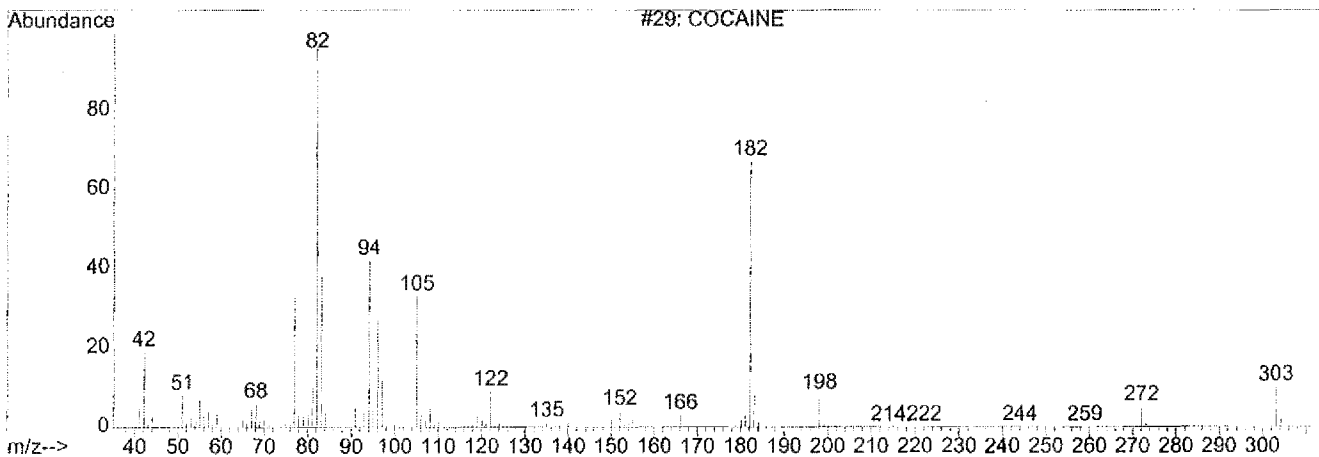
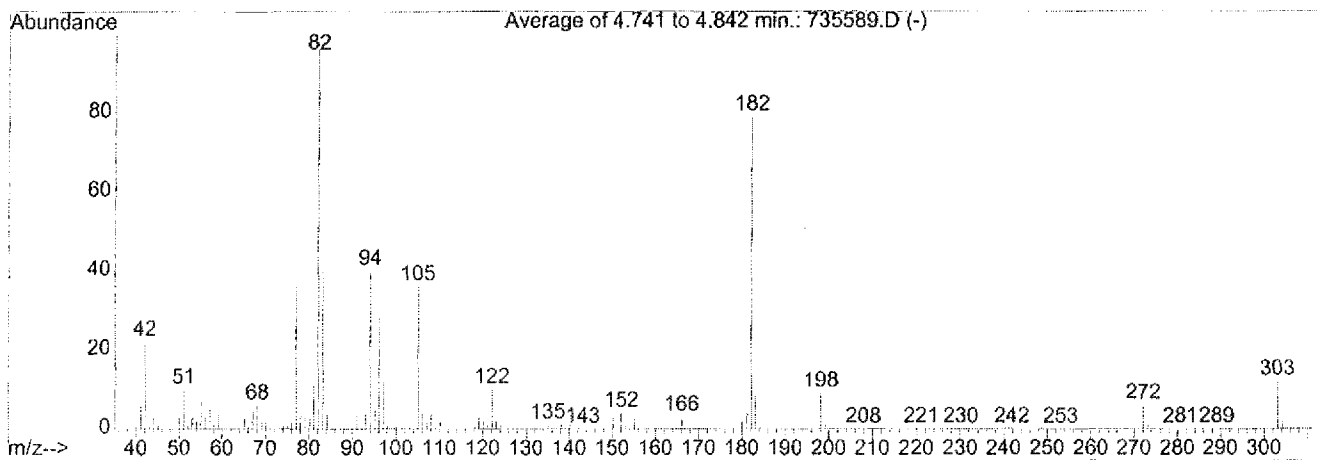
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735589.D
Operator        : ASD
Date Acquired   : 6 Aug 2010    7:43
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 89
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

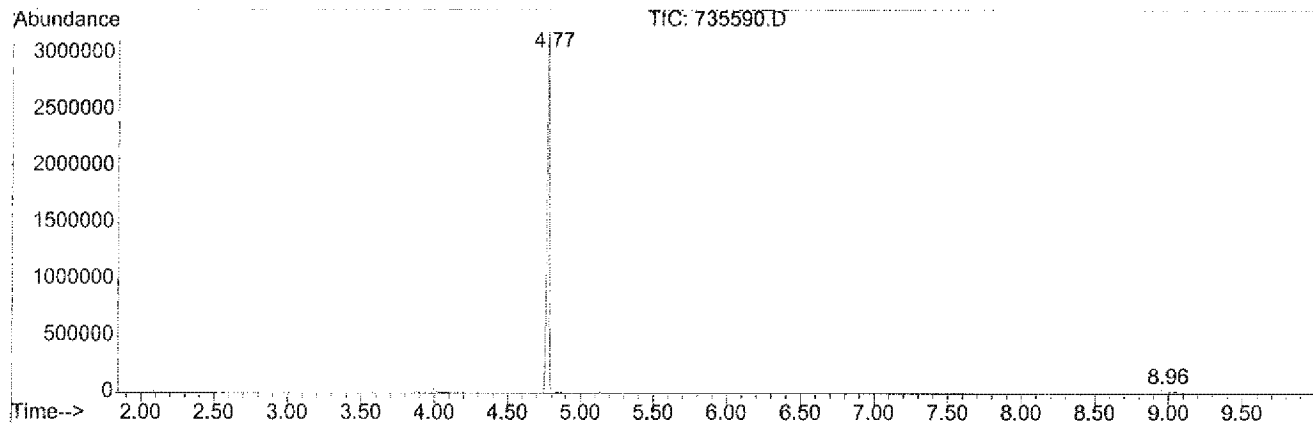
PK#	RT	Library/ID	CAS#	Qual
1	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735590.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 7:56
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 90
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.773	3424817	96.87	100.00
8.956	110742	3.13	3.23

Area Percent / Library Search Report

Information from Data File:

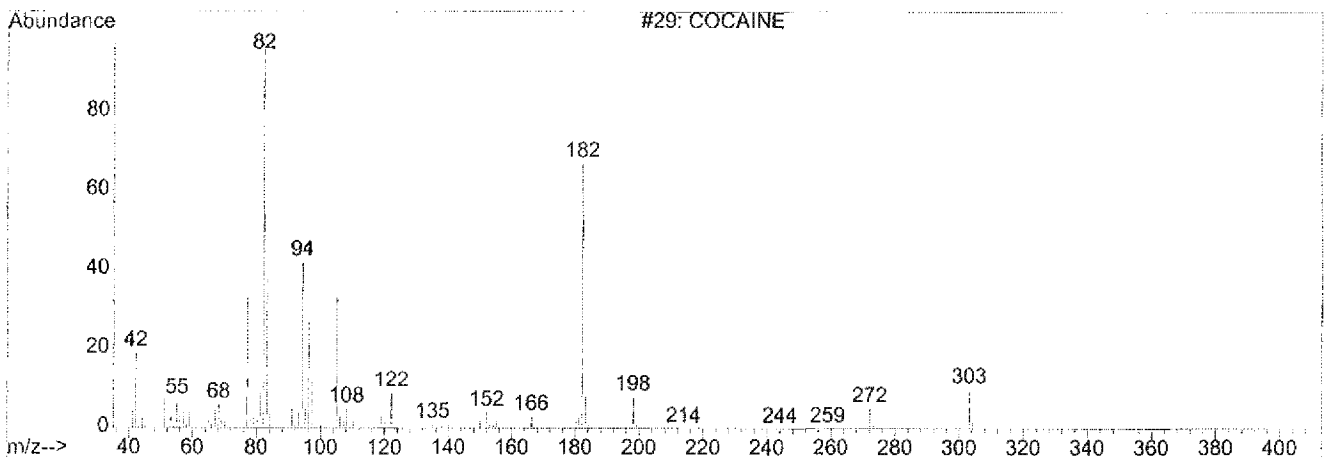
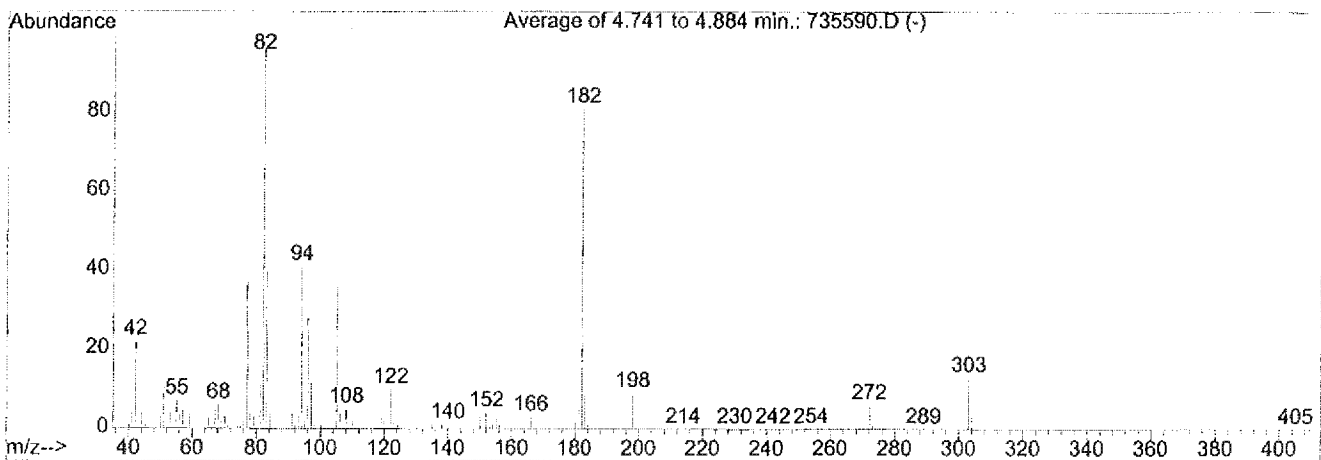
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735590.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   7:56
Sample Name     : 
Submitted by    : MGL
Vial Number     : 90
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

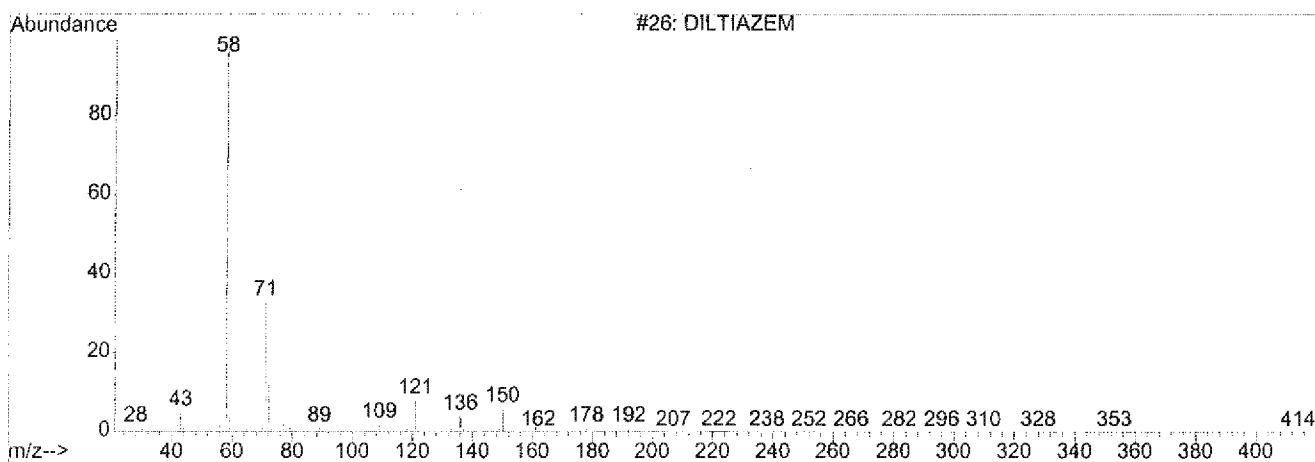
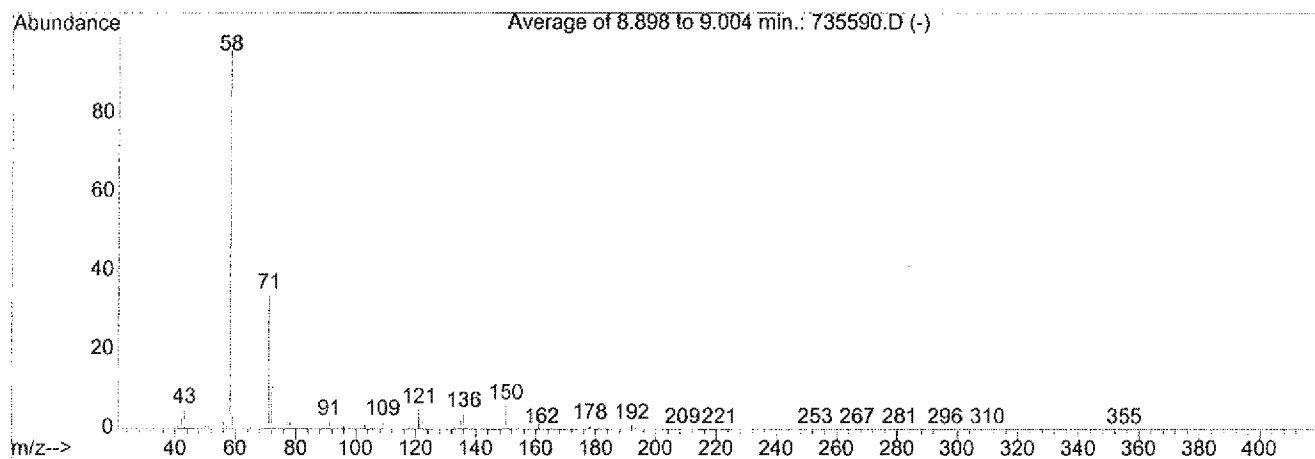
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735590.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   7:56
Sample Name     : 
Submitted by    : MGL
Vial Number     : 90
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

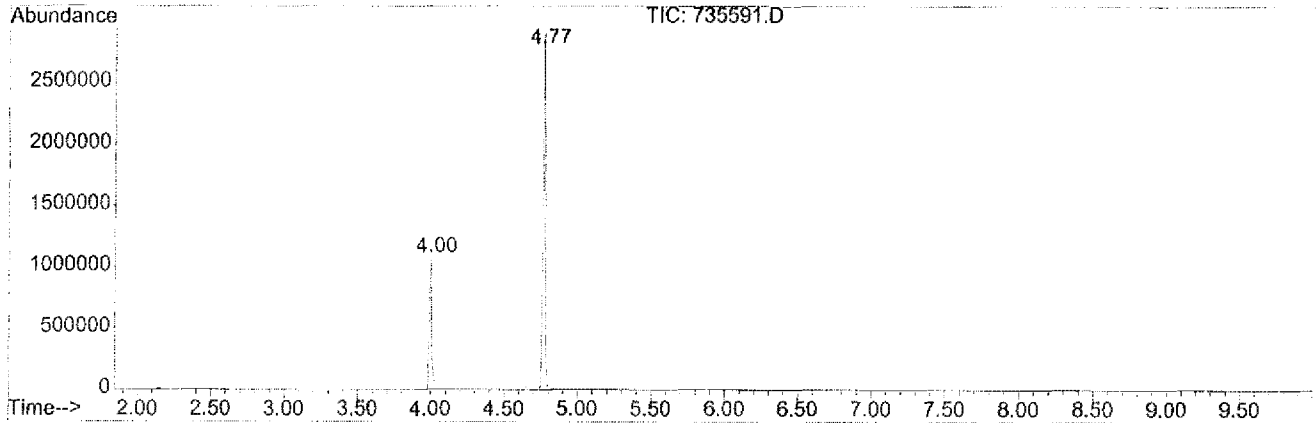
PK#	RT	Library/ID	CAS#	Qual
2	8.96	C:\DATABASE\SLI.L		
		DILTIAZEM	033286-22-5	91
		ORPHENADRINE	000083-98-7	4
		CITALOPRAM	059729-33-8	4



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735591.D
Operator : ASD
Date Acquired : 6 Aug 2010 8:10
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 91
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.998	1254824	29.34	41.52
4.771	3021872	70.66	100.00

Area Percent / Library Search Report

Information from Data File:

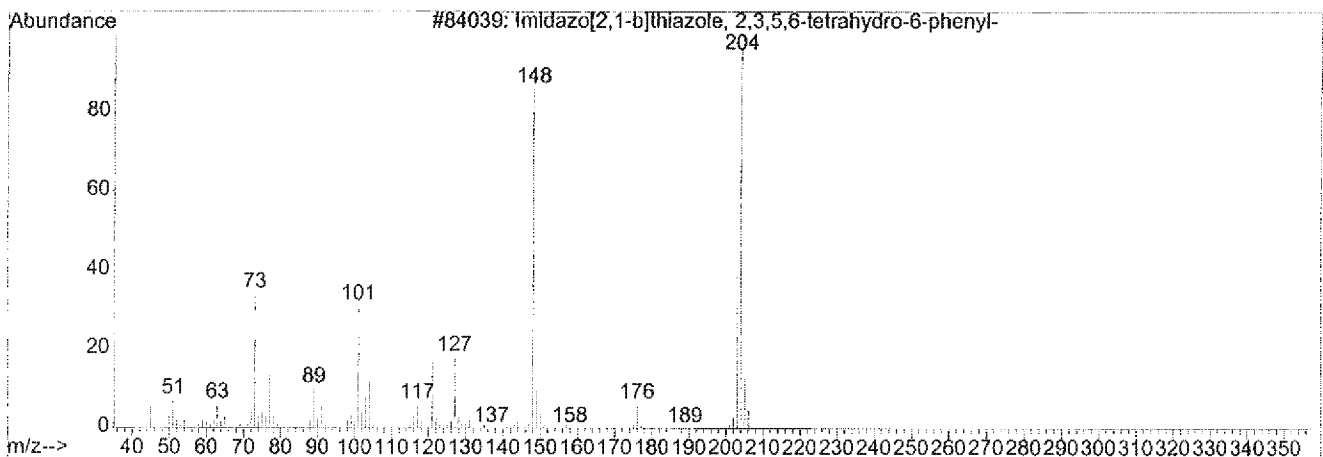
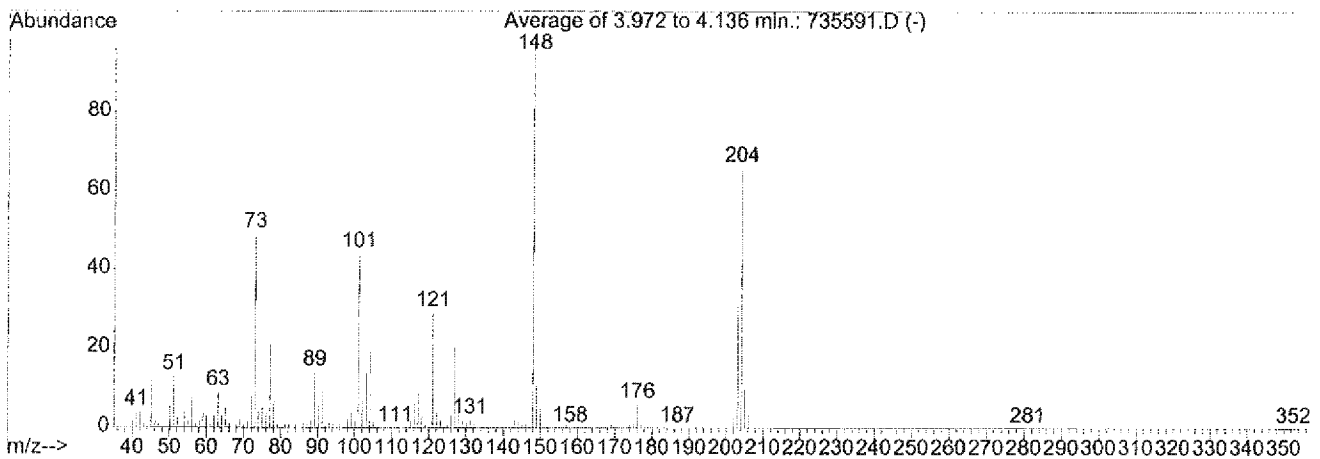
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735591.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   8:10
Sample Name     : 
Submitted by    : MGL
Vial Number     : 91
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.00	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



Area Percent / Library Search Report

Information from Data File:

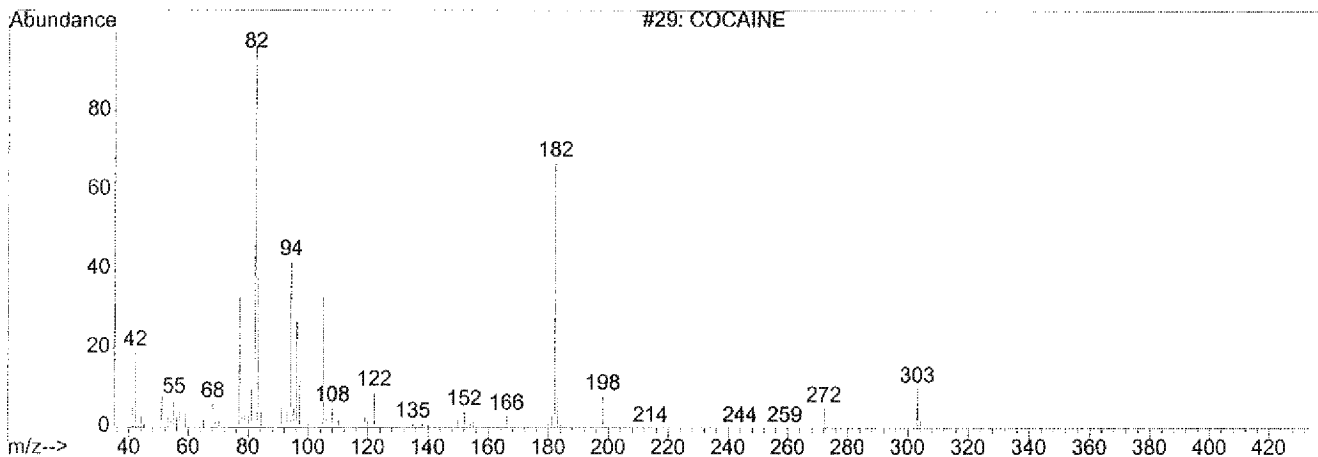
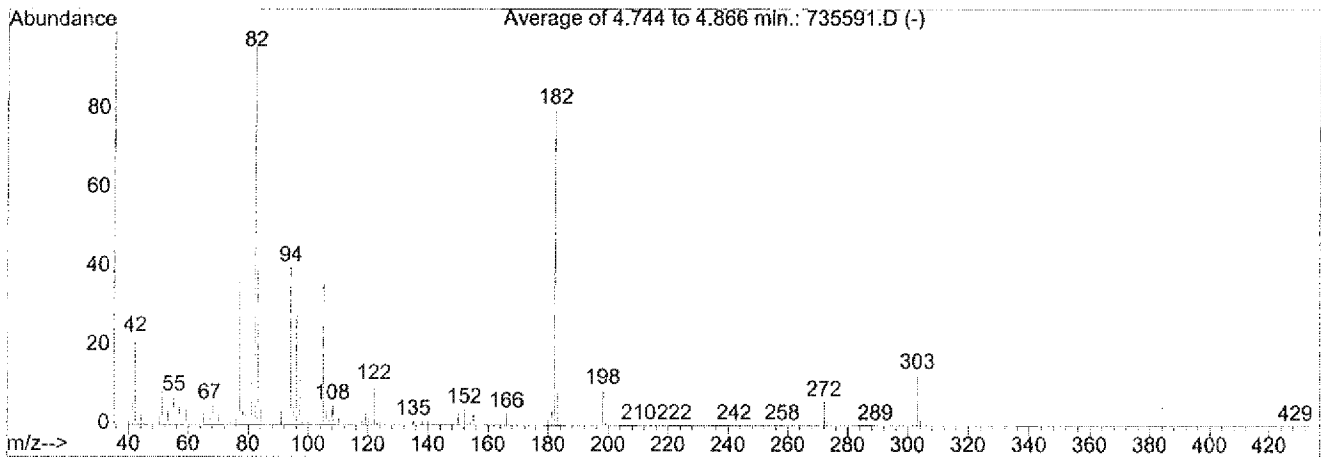
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735591.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   8:10
Sample Name     : 
Submitted by    : MGL
Vial Number     : 91
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

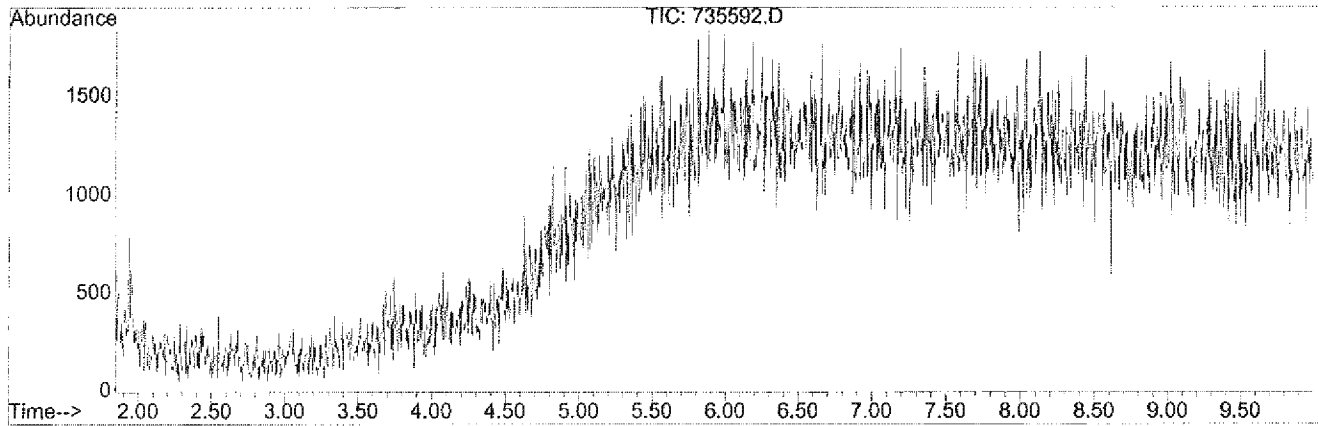
PK#	RT	Library/ID	CAS#	Qual
2	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735592.D
Operator : ASD
Date Acquired : 6 Aug 2010 8:23
Sample Name : BLANK
Submitted by : MGL
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



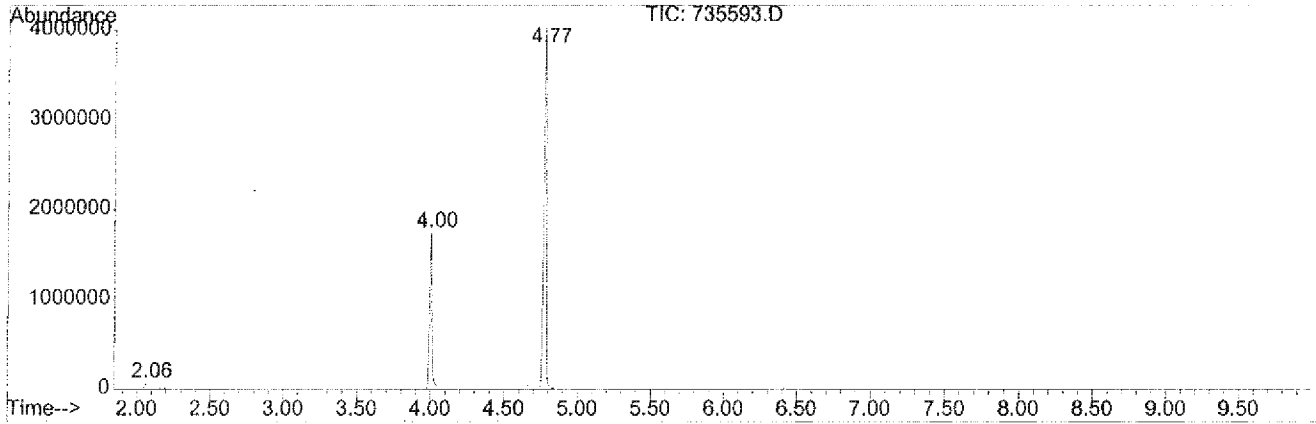
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735593.D
Operator : ASD
Date Acquired : 6 Aug 2010 8:37
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 93
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.061	176545	2.45	3.61
4.002	2139962	29.69	43.74
4.774	4891991	67.86	100.00

Area Percent / Library Search Report

Information from Data File:

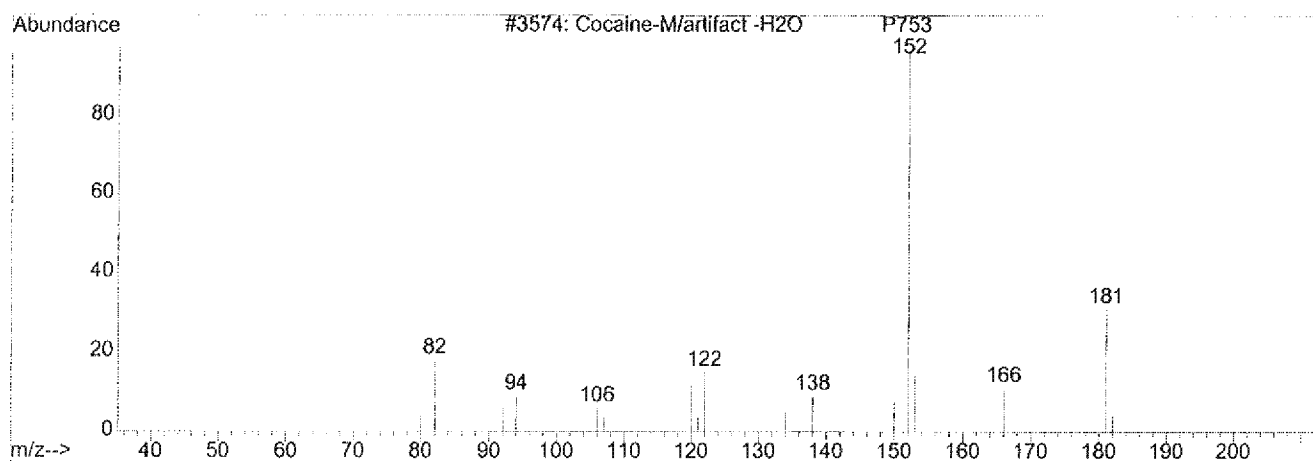
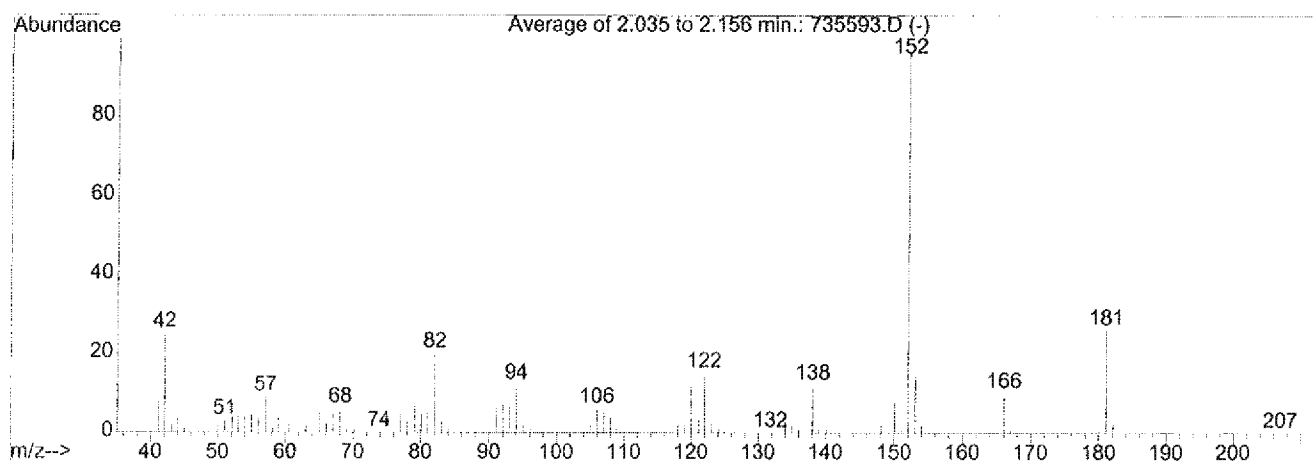
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735593.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   8:37
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 93
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.06	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	98
		Metipranolol-M/artifact AC	000000-00-0	32
		Acenaphthylene	000208-96-8	9



Area Percent / Library Search Report

Information from Data File:

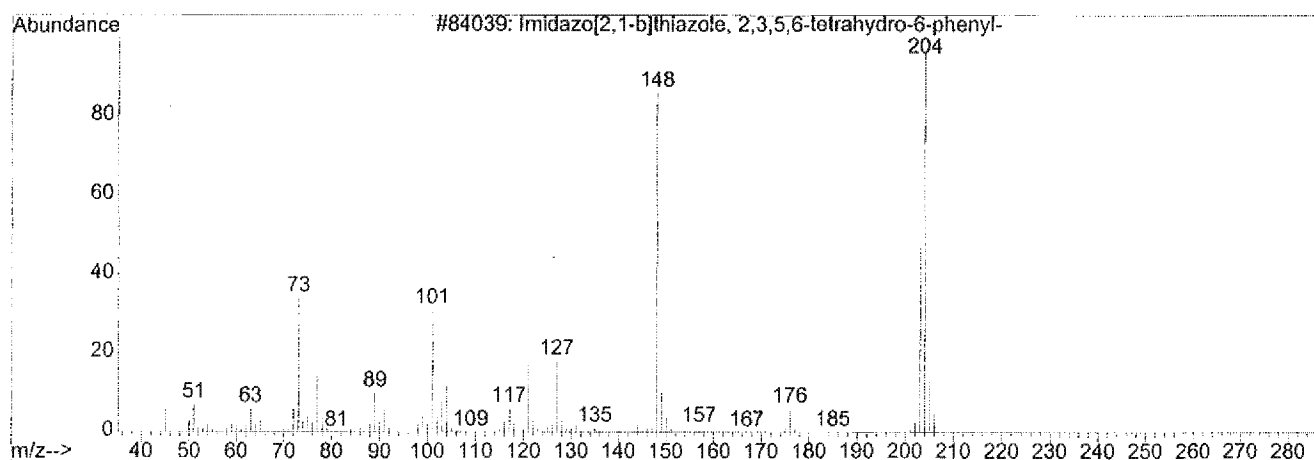
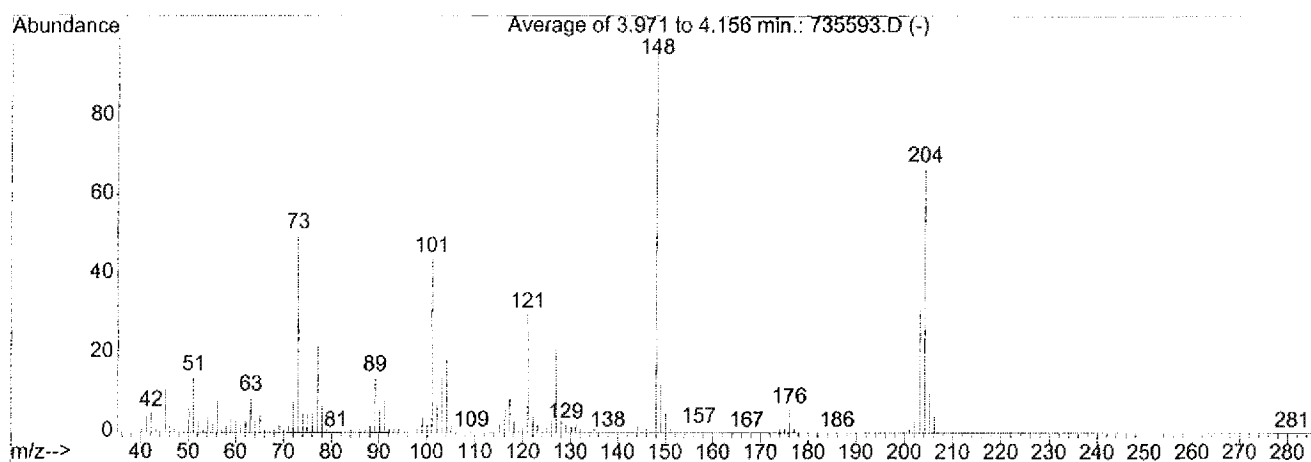
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735593.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   8:37
Sample Name     : 
Submitted by    : MGL
Vial Number     : 93
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	4.00	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



Area Percent / Library Search Report

Information from Data File:

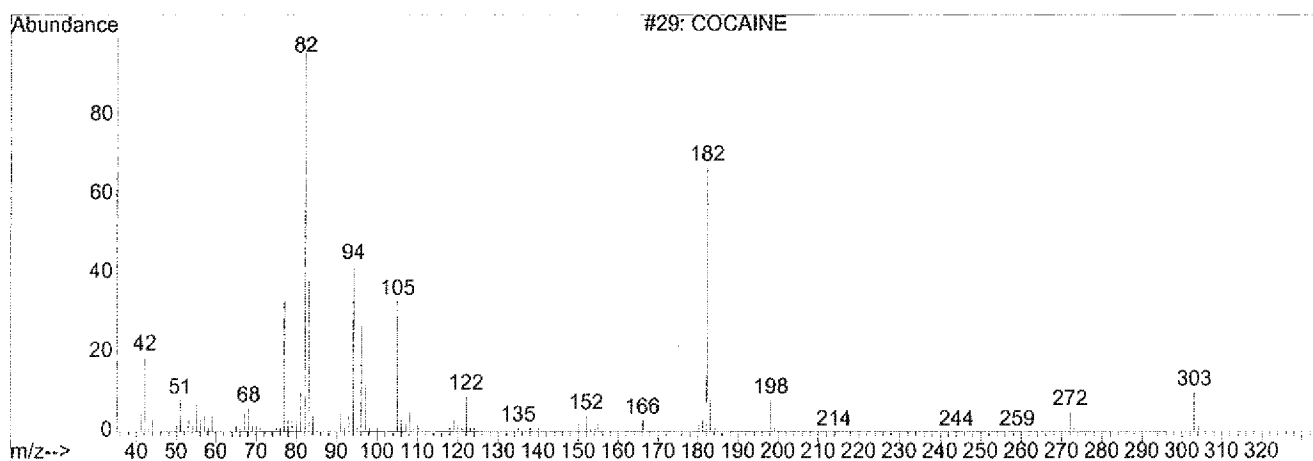
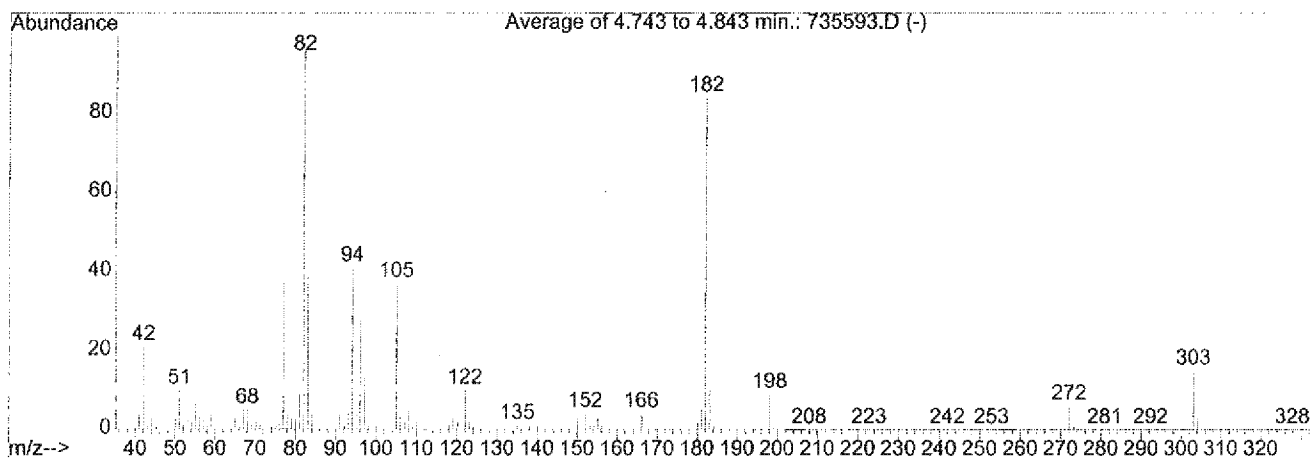
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735593.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   8:37
Sample Name     : 
Submitted by    : MGL
Vial Number     : 93
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

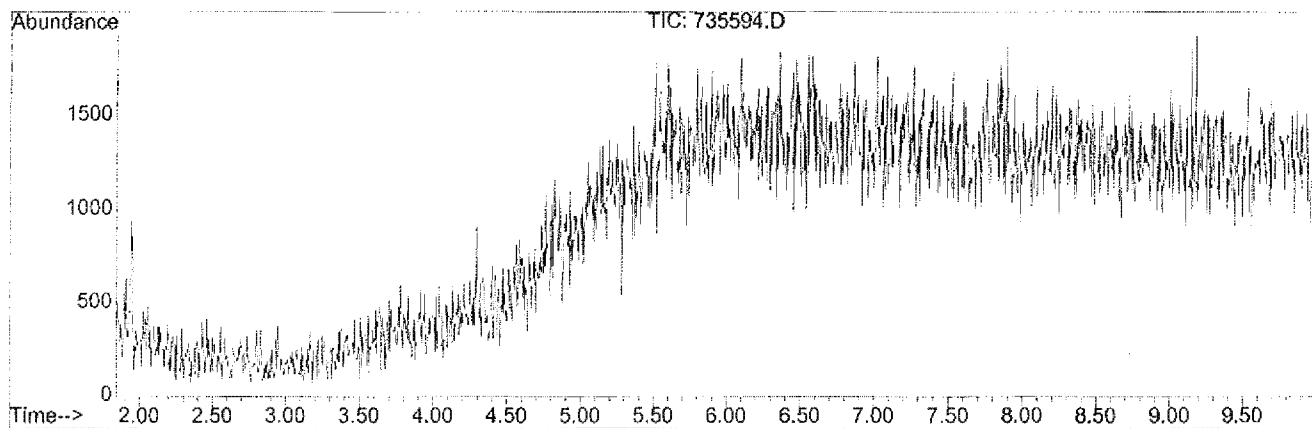
PK#	RT	Library/ID	CAS#	Qual
3	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735594.D
Operator : ASD
Date Acquired : 6 Aug 2010 8:50
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



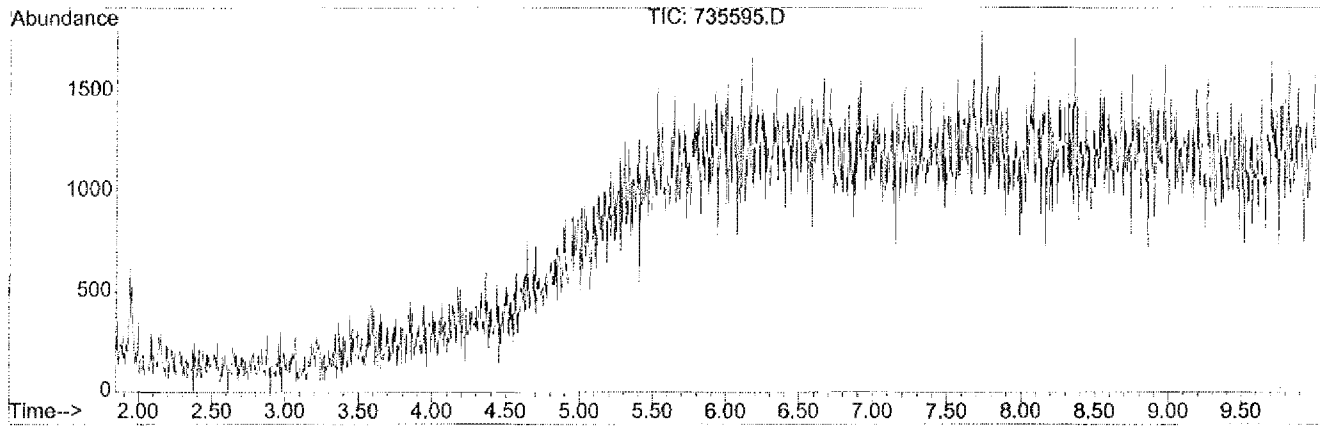
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735595.D
Operator : ASD
Date Acquired : 6 Aug 2010 9:04
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



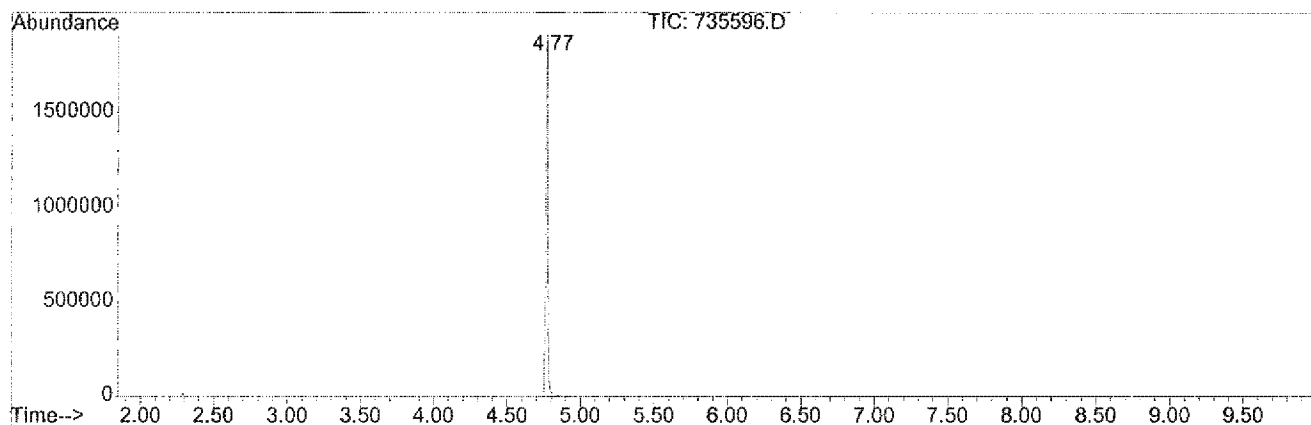
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735596.D
 Operator : ASD
 Date Acquired : 6 Aug 2010 9:17
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 96
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.768	1837055	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

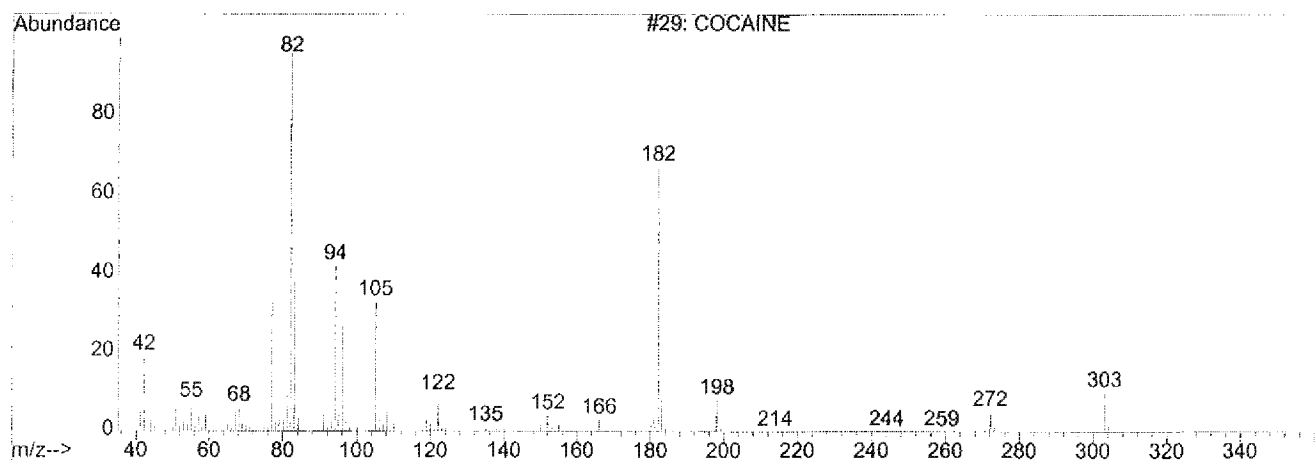
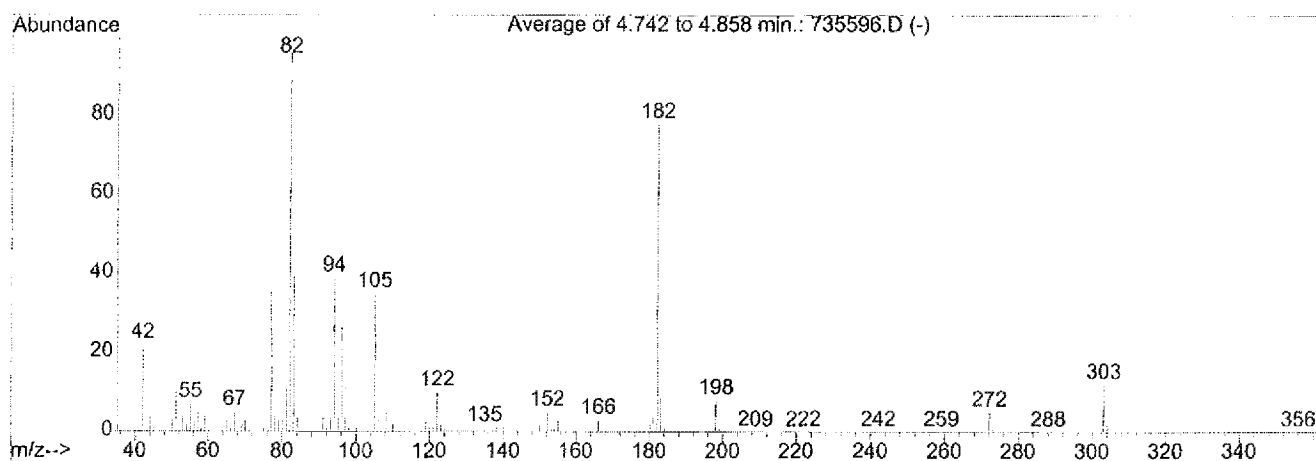
```

File Name       : F:\Q3-2010\SYSTEM4\08_05_10\735596.D
Operator        : ASD
Date Acquired   : 6 Aug 2010   9:17
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 96
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

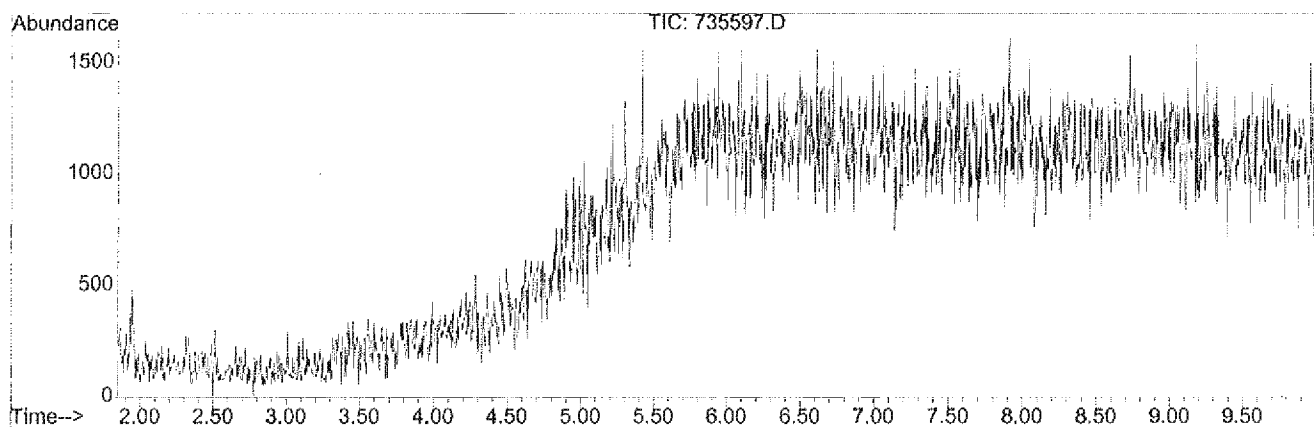
PK#	RT	Library/ID	CAS#	Qual
1	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\08_05_10\735597.D
Operator : ASD
Date Acquired : 6 Aug 2010 9:30
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS